19971110.qrp v00_n905.qrs.971110

Date: Mon, 10 Nov 1997 19:05:00 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 905

QRP-L Digest 905

Topics covered in this issue include:

    by Bob Liesenfeld <wb0poq@visi.com>
20) [30551] Help identify connector
    by Ricky McNelly <72507.235@compuserve.com>
21) [30552] N/T+ Foxhunt of 10 NOV 0200-0400 UTC
    by ARDUJENSKI@aol.com
22) [30553] Mike Bryce's Antenna T/R Circuit???
    by James P Rybak <jrybak@mesa7.mesa.colorado.edu>
23) [30554] Re: 2N2 VFO
    by n5inz@Juno.com (John M Andrews)
24) [30555] RE:NORCAL STRAIGHT KEY
    by Scott Bauer <ke3nv@erols.com>
25) [30556] GB2RS Propagation Reports
    by Dave.Ackrill@LotusXchgPG.powergen.co.uk
26) [30557] QRP Attitude
    by "Christopher Moore" <christopher.moore@snet.net>
27) [30558] Norcal Paddles
    by aa8yo@tir.com (Bob Fox)
28) [30559] Thursday Fixes
    by "Rattray, Bruce" <Rattray@siast.sk.ca>
29) [30560] re: good ant
    by "LLOYD DEEM" <WH6CDU@classic.msn.com>
30) [30561] rec.radio lists info needed
    by Paolo Sassoli <sassoli@ii1wh10.settimo.italtel.it>
31) [30562] Norcal Paddles
    by "Jeff M. Gold" <jmg@tntech.edu>
32) [30563] forgot-norcal paddles
    by "Jeff M. Gold" <jmg@tntech.edu>
33) [30564] FORE SALE
    by k4wz@juno.com (RON L TODD)
34) [30565] RE: Doghouse Operation Sprint & 609 Team
    by "Heron, George" <G.Heron@dialogic.com>
35) [30566] KW E-Zee Match (Update)
    by Dave.Ackrill@LotusXchgPG.powergen.co.uk
36) [30567] KW E-ZEE Match
    by Dave.Ackrill@LotusXchgPG.powergen.co.uk
37) [30567] rec.radio lists info needed
    by Kevin Muenzler WB5RUE <wb5rue@amsat.org>
38) [30568] Re: Ten-Tec 2M transverter kit
    by Zack Lau <zlau@arrl.org>
39) [30569] Re: SPICE Info
    by Jim Eshleman <lujce@hooch.cc.Lehigh.EDU>
40) [30570] Re: 2222 Project Design Trade Offs
    by Zack Lau <zlau@arrl.org>
41) [30571] RCGV3.4
    by adams@chuck.dallas.sgi.com (Chuck Adams)
42) [30572] Marylander Hospitality
    by "Adam B. Kanis" <adam-kanis@uiowa.edu>
43) [30573] Re: 2222 Project Design Trade Offs

    by "Jeff M. Gold" <jmg@tntech.edu>
68) [30584] Plastic Paddle Handles, The Fix
    by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
69) [30584] FOX: N0GLM fox update
    by "Buck, Preston D" <BuckPD@corning.com>
70) [30584] Re: bugs, keys and paddles
    by "david's" <elim@ime.net>
71) [30584] Circuit analysis programs
    by Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>
72) [30584] RE: LEDs and QRP Flashlights
    by Dave.Ackrill@LotusXchgPG.powergen.co.uk
73) [30584] For Sale: Two Unbuilt Heathkits
    by RobCap@aol.com
74) [30584] feedline story
    by cooper@gmpvt.com (Tom Cooper)
75) [30584] Re: bugs, keys and paddles
    by n4js@amsat.org
76) [30585] Re: Multi-band Verticals
    by Peter Demmer <ampruss@hits.net>
77) [30586] Moles, Voles and New QRPp
    by Joe Gervais <vole@primenet.com>
78) [30587] Re: bugs, keys and paddles -Reply
    by Bob Reynolds <breynold@sigg.com>
79) [30588] Re: QRPttF 98 Theme
    by kt3a@juno.com
80) [30588] RE: Thursday Fixes
    by "chuck munce" <k0gjx@classic.msn.com>
81) [30589] PSPICE
    by adams@chuck.dallas.sgi.com (Chuck Adams)
82) [30590] CAD Spice or whatever
    by Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>
83) [30588] Re: bugs, keys and paddles -Reply
    by "John E. Kemker, III" <kemkerj@xyzzy.net>
84) [30589] Norcal Paddle instructions
    by mlp <mlp@flash.net>
85) [30590] Aurora Question
    by "Dasher, Mark" <DasherM@IRWIN.ARMY.MIL>
86) [30591] Re: bugs, keys and paddles -Reply
    by Ed Loranger <we6w@qsl.net>
87) [30588] Re: QRPttF 98 Theme
    by John Evans - N0HJ <jaevans@codenet.net>
88) [30588] Re: Bugs, Paddles,Straight Keys, and KEYBOARDS!
    by nq2rp@juno.com (B/BAMS Club Station)
89) [30589] RE; bugs, paddles and keys
    by Steven Weber <kd1jv@moose.ncia.net>
90) [30590] Re: QRPttF 98 Theme
    by Andy Fox <foxes@theriver.com>

Date: Sun, 9 Nov 1997 19:42:24 -0500
From: wb8ygg@juno.com (Bradley S. Mitchell)
To: qrp-l@Lehigh.EDU
Subject: [30535] LED Flashlight field test
Message-ID: <19971109.194226.3790.0.WB8YGG@juno.com>

Well, I decided to try one of these LED flashlights
out in the field.

I bought a 12,000 MCD Orange LED from Radio Shack, and ran it off of
2 AA batteries with a 33 ohm resistor.

I took it on a backpacking trip this weekend with my sons scout
troop.

It rained, and at night it was really foggy.

Results: as a flashlight in the woods, not so great.
I could see the beam 20-30 feet away, but not enough illumination
to really do well. You would probably need 2 maybe 3 LED's to do this.

In the tent, in total darkness however it was a pretty useful small
light.
I was able to see my 2M ht with it, and the water bottle etc.

My short conclusion is that what I really need is a light just like I
have for in
the tent, plus maybe one that stays on continuously for reading the
radio dial and log sheet for field day. (We've burnt up lots of batteries

keeping the light going all night!)

For an outside flashlight, more experimentation is in store, with other
wavelength LEDs, and more MCDs..

P.S. one neat effect was that my son knew exactly where I was when we
went
for water in complete darkness with about 10 other scouts. (nobody
else was glowing orange-red).

73 Brad WB8YGG

Date: Mon, 10 Nov 1997 01:51:39 GMT

From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: qrp-l@Lehigh.EDU
Subject: [30536] QRP-L Stats
Message-ID: <199711100151.BAA20683@chuck.dallas.sgi.com>

QRP-L Gang,

OK, just for the heck of it, I have gone back through all the archives that I have on hard disk storage. May be a file or two missing, don't know for sure until I can get more time. This only took about 5 minutes while waiting for a file transfer, so in order to kill two birds with one stone, thought you might be interested in the following. Doesn't mean anything in particular, but an eye opener to the new subscribers.

Place seats in upright position and stow all luggage under the seat in fron of you and raise tray tables out of the way..... :-)

And people still believe that it is possible to create a FAQ for this group!! ;-)

FYI

--------------------------------cut here-------------------------------

YEAR	DAYS	# Subject Lines	Lines	Bytes	Fox in Subject
1993	237	4,128	130,316	4.837MB	0
1994	311	8,790	270,412	10.397MB	214
1995	361	12,357	466,620	20.590MB	659
1996	364	20,743	851,278	39.567MB	1,055
1997	305	23,159	1,015,692	43.830MB	1,243

YEAR	Avg # of Posts/Day	Avg # of Lines/Post
1993	17.4	31.57
1994	28.26	30.76
1995	34.23	37.76
1996	56.99	41.04
1997	75.93	43.86

But a lot of this you already knew from looking at the Digest or the number of times you had to read email per

day to keep up. :-)

FYI

Chuck Adams K5FO CP-60 adams@sgi.com
http://reality.sgi.com/adams/index.html

Date: Tue, 1 Oct 1996 18:10:24 -0800
From: wpc@west.net (John Roblin)
To: qrp-l@Lehigh.EDU
Subject: [30537] New Product Announcement!
Message-ID: <v01530500ae777e1a9382@[205.254.241.5]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Greetings QRP-L'ers!

The Whiterook Products Company is very pleased to announce the addition of a new QRP/Portable related item to our product line:

***The MK-79 Pocket LED Mini-Light

(Yes, some of you asked for it, now we have a unique one!)

The MK-79 Mini-Light provides a very low power, highly efficient, and CONTINUOUS source of light for those times when you are on the go and in the field. It's unique *3 Super Bright Yellow LED* design offers light that is more evenly distributed compared to "LED flashlights".

For more details, visit our World Wide Web Site at:

http://www.west.net/~wpc/

For those with E-mail only capability, drop me a note requesting our descriptive text E-Mail Catalog.

Thank you for your time. Please stay tuned for more unique QRP related items and content on our website.

73, John Roblin WA6KYO

Whiterook Products Company
Ventura, California USA
+1-805-339-0702
http://www.west.net/~wpc/

wpc@west.net

Date: Sun, 9 Nov 97 18:28:04 PST
From: Paul Erickson <paul1@wizard.ucs.sfu.ca>
To: bruce@shore.net
Cc: qrp-l@Lehigh.EDU (qrp), cw@qth.net (CW - Reflector)
Subject: [30538] Re: [CW] NorCal paddle kit
Message-ID: <9711100228.AA19982@wizard.ucs.sfu.ca>

>
Hi Bruce,

A few suggestions that you may hear from any other Knife makers/builders
on the list. 60 grit emery is the place to start. I would recommend that
you lay a sheet on a flat surface and rub the block until the scratches
are going all one way. Then change to the next finer grade and change the
angle of the block, and sand it until the scratches are all the same way.
Work through the various grades up to 400 and 600. By the time you reach
600 the surface will begin to look like a mirror. Then some final work with
polishing compound and you should be able to shave in the reflection.
I will be doing this with mine as I intend to see how it looks blued.
If you just intend to paint it, you can stop at 400 grit. It will take
time, but the results will be worth it.

cheers, Paul
VE7CQK
email: paul1@wizard.ucs.sfu.ca
>
> Has anyone else here bought and assembled the new NorCal paddle kit? If so,
> did you have any trouble sanding/polishing the cold rolled steel base? This
> piece of metal seems to be made of kriptonite! I have tried 60 grit
> sandpaper like the instruction sheet recommends (forget it) and have now
> been blasting away with 60 grit emery cloth. All of this has been done with
> a hard rubber sanding block. I have the surface pretty smooth now but there
> are still a couple of small scratches and imperfections I'm trying to
> remove.
>
> VERY slow going.
>
> Bruce Marshall - k1AJ

> bruce@shore.net
> http://www1.shore.net/~bruce/
> "That which is well conceived is well articulated." - Boileau
>
> <   >
> < * * * * * * * * * * * * * * * * * THE CW REFLECTOR * * * * * * * * * * * * * >
> __Subscribe   To: Majordomo@qth.net with Body: subscribe cw
> __Unsubscribe   To: Majordomo@qth.net with Body: unsubscribe cw
> __To post, send to cw@qth.net   please, CW issues only
> __For digest version, Subscribe to cw-digest through majordomo@qth.net
> __For archives of postings, see web page http://www.qth.net/cw-digest.archive
> __To contact list owner, email to owner-cw@qth.net
>
>

Date: Thu, 06 Nov 1997 17:40:03 -0500
From: Henry Freedenberg <henryf@quartz.gly.fsu.edu>
To: wpc@west.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [30539] Re: New Product Announcement!
Message-ID: <34624743.413A@quartz.gly.fsu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

John Roblin wrote:
>

> ***The MK-79 Pocket LED Mini-Light
>

Talk about short product cycles......

Date: Sun, 09 Nov 1997 21:49:43
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@Lehigh.EDU
Subject: [30540] paddle
Message-ID: <3.0.1.16.19971109214943.26c771b0@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Now that I've had a chance to play with the K8FF paddle for a bit, I must say I really like the feel it has. The positive snap action of the magnet is nice. Sounds like I can actually send coherent code with this puppy. (If I can only learn not to drop a dit on S's, H's and 5's)

Now, how about a straight key version?
 (Is that Doug Hauff I hear groaning? :-))

72,
Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Mon, 10 Nov 1997 02:45:52 GMT
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: qrp-l@Lehigh.EDU
Subject: [30541] QRP-L Member Counts
Message-ID: <199711100245.CAA20865@chuck.dallas.sgi.com>

Gang,

Someone emailed to me the question about the number of subscribers.
That one is more difficult to answer. If one runs the command,

LISTSERV@LEHIGH.EDU | RECIPIENTS QRP-L | get list of members

then you do not get the hidden subscribers. Also there are number
of non-subscribers that get QRP-L via other sources such as the web
and ftp sites. So the total number is anyone's guess. I'd put the
number around 2,500 total just from the email that I get from outside
the reflector.

Here is what I have, mileage may vary:

Jan 19, 1996   889
Dec 12, 1996 1,526
Jan 31, 1997 1,632
May 2, 1997 1,804
Jul 2, 1997 1,877
Oct 6, 1997 1,946
Nov 9, 1997 1,997 (this was an accident) :-)

April 15, 1996 523 numbers assigned

May   2, 1997 1098 numbers assigned via the GETNR command.

So we are over 2,000 in number and growing daily.

Again, FYI

dit dit

Chuck Adams K5FO CP-60 adams@sgi.com
http://reality.sgi.com/adams/index.html

Date: Mon, 10 Nov 1997 02:52:54 GMT
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: qrp-l@Lehigh.EDU
Subject: [30541] NorCal Straight Key
Message-ID: <199711100252.CAA20880@chuck.dallas.sgi.com>

Uh, I personally must say that it is easier for me to copy Morse sent with a paddle and a keyer than with a Straight Key. Don't slow the people down. Faster and faster until the thrill of speed overcomes the fear of death......

Bugs should be squashed, not heard. :-)

Let's not get into a flame war on this one. ;-)

Oooops. Heard another bug bite the dust.....

I am setting up a meeting with N5TJ. Gotta find out how the kid does it with two radios blasting away at one time. :-)

I now have my SS summary. Data tomorrow after I get to work and get a hard copy. Where I got zapped was with the wrong time off being shown. I did less than 22 hours on, down from last year. No rest next year. 24hrs straight through. ;-)

dit dit
Chuck Adams K5FO CP-60 adams@sgi.com
http://reality.sgi.com/adams/index.html

Date: Sun, 9 Nov 1997 22:06:57 -0500 (EST)
From: "J. Skalski" <jskalski@acsu.buffalo.edu>
To: Chuck Adams <adams@chuck.dallas.sgi.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [30542] Re: NorCal Straight Key
Message-ID: <Pine.GSO.3.96.971109220615.12318A-100000@joxer.acsu.buffalo.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Bugs....cockroaches....you'll never get them all.

73,

Jim N2GO
The Buffalo QRP CONNECTION
ARCI #9013 QRP-L #381
Life member ARRL
jskalski@acsu.Buffalo.EDU

Date: Sun, 09 Nov 1997 20:17:30 -0800
From: "Russell W. white" <ruswhite@netzone.com>
To: qrp-l@Lehigh.EDU
Subject: [30543] ARRL Radio Designer
Message-ID: <3.0.3.32.19971109201730.007ba6e0@pop.netzone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Does anyone have any experience with the ARRL Radio Designer software? Is anyone using it to work on the 2N2 project?

Russ AB7JX

Date: Sun, 9 Nov 1997 22:33:50 -0500 (EST)

From: JOppen6115@aol.com
To: tahrens1@juno.com
Cc: qrp-l@Lehigh.EDU
Subject: [30544] Re: Gel Cell <Charging> Questions: (Kinda long)
Message-ID: <971109223349_161674888@mrin40.mail.aol.com>

Hi Tim,
Many lead-acid batteries (including Gel Cells) like to be charged by a constant voltage scheme. This implies that you hold the proper voltage across them and they taper off their charge as they approach the charging voltage. Unless something drastic happens, the batteries should just charge and discharge in accordance with their electro-chemical characteristics. If they cross-feed a bit, I wouldn't suppose much harm would be done, but it's not the way I would do it either. The ARRL handbook goes into a little more detail on the requirements of gel and sealed lead acid batteries.

There are acutally two voltages to charge to. The higher is the "float" voltage and ensures that the battery receives a full charge. The second voltage is used to charge for a long time. You can leave a battery of this type hooked to this voltage indeffinitely, as is likely done in your charger and in evergency lighting systems. They are likely marded on the side of the battery. Most often, these are in the neighborhood of 14.4 and 13.8V.

The ARRL handbook has a nice example of a charger for these. Note in particular the clever use of a diode to drop from the regulated float voltage to the lower charging voltage. This is simply a 14.4 V regulated supply and a diode to drop the voltage 6V to 13.8 for the long term after achieving the float voltage.

In this type of application, they could both in parallel and have them work. At least until one develops a shorted cell! That's why I'd prefer to see a diode to keep the good one from going down with the bad one.

I plan to construct a small voltage regulated buss with diodes coming off of it. I can hook up all my gell cells to this and let them all be maintained from the same power buss.

The reason I plan to do this is that these batteries will be ruined if left uncharged for long periods of time. I have a variety of gel and sealed batteries from 2 Ah to 24 Ah, and I hope to be able to maintain them all from the same buss. By using a small capacity charger (~18 V wall wart with an external voltage regulator circuit) I can maintain them without worry of excessive currents. Obviously, the larger batteries can attempt to pull a lot of current, so I'll try to have them bulk charged first, but this should maintain them indefinitely. The nice thing about the wall warts is that if the battery tries to pull a lot of current, it'll just drop voltage with increasing current until an equilibrium is reached. A simple kind of current limiter, based on the inherent resistance of the WW's transformer.

This design is just an unproven theory so far, but I have high hopes for it.
 Let me know if you have any thoughts on it.

I hope that this slightly long-winded response helps you out.

SEND OR CC ANY REPLIES DIRECT, AS I GET THE DIGEST VERSION.

73, John Oppen, KJ6HZ

Date: Sun, 9 Nov 1997 22:38:54 -0500 (EST)
From: Jerrydeen@aol.com
To: qrp-l@Lehigh.EDU
Subject: [30545] N/T fox KB7MBI
Message-ID: <971109223420_276969283@mrin52.mail.aol.com>

Hi Alan-

Great job as the fox tonite. Good to hear you. Keep up the fine work!
 Thanks for the contact.

72 Jerry WB0T 1268 4W out pwr

Date: Sun, 9 Nov 1997 19:41:03 -0800 (PST)
From: "S. Lee" <slee@u.washington.edu>
To: CHARLES E HUX <wd4nak@juno.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [30545] Re: need info
Message-ID: <Pine.A41.3.95b.971109193748.29140B-100000@homer09.u.washington.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

CM6CX is in Cuba, should be able to find this station in the
North American Callbook, Zone 8, ITU Zone 11. Good luck!
Say, was the station drifting across the band????

de AB7HI, Stephen Lee, Federal Way, WA
          slee@u.washington.edu

On Sun, 9 Nov 1997, CHARLES E HUX wrote:

> will some one please tell me where CM6CX is located at ?

> thank's   Charles wd4nak
>
>

Date: Sun, 9 Nov 1997 20:42:42 -0700 (MST)
From: James P Rybak <jrybak@mesa7.mesa.colorado.edu>
To: qrp-l@Lehigh.EDU
Subject: [30545] Good Antenna for Portable QRP????
Message-ID: <Pine.OSF.3.91.971109203839.30833A-100000@mesa7.mesa.colorado.edu>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

What is considered to be the best whip type antenna for operating
portable, the Outbackers, the Ham Sticks, or what? Has anyone tried the
Comet CA-HV?

Thanks.

Jim W0KSD

Date: Sun, 9 Nov 1997 23:01:12 -0500 (EST)
From: "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [30546] Shipment of LDG group purchase stuff
Message-ID: <Pine.LNX.3.95.971109225715.15752H-100000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Crazy me...had the goodies shipped to my HOTEL in Pennsylvania, where I
spent two evenings boxing, taping, addressing...

Drove a bunch to the Post Office in Bala Cynwyd (Pronounced Ba-la Kin-Wid)
and then tried to find the UPS dropoff...

"1500 Market Street, eh?"

Drove downtown (yeech) and figured it'd be down on the docks...it was
RIGHT downtown...how they ever get anything into and out of there I'll
never know...

Anywa, the heavier boxes (there are 11 of them, I think) are going out via UPS tomorrow.

If you ordered JUST a balun (or two) or JUST a QRP tuner, it's been sent via US Post, insured, 1st class. If you ordered more, it <<may>> have gone out Friday, in which case you'll probably be getting it tomorrow or Tuesday.

If you live in California, there's a 90% chance your package has been sent.

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
* 6m 80 grids on 8w * DXCC WAS WAC * QRP-L #147 * QRP ARCI #9054 *
* Charter member, Maryland Milliwatters * W3-VK on 3w mobile CW *
*** 301-549-1022 h / 301-982-1015 w ** Life is one big hamfest ***

Date: Sun, 9 Nov 1997 22:29:53 -0500
From: Rich Bachmann <bachmann@ari.net>
To: "'tahrens1@juno.com'" <tahrens1@juno.com>
Cc: "'qrp-l@lehigh.edu'" <qrp-l@Lehigh.EDU>
Subject: [30547] Gel Cell Questions:
Message-ID: <01BCED62.751BB7E0@ppp_bach.ari.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

Recently, I saw a reference to series-parallel connected cells in The =
Eagle-Picher Battery Application Manual.
It says that cell voltages add for series connection and that amp-hr =
capacity adds for parallel connection. Further, it says that you can =
make series and parallel combinations to get the proper voltage and the =
desired amp-hr capacity. The only restriction is that you use identical =
cells.

Hope this helps.

72, Rich, N3SLR
bachmann@ari.net

Date: Sun, 09 Nov 1997 20:15:28 -0800
From: Monte Stark <ku7y@sage.dri.edu>
To: adams@chuck.dallas.sgi.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [30548] Re: NorCal Straight Key
Message-ID: <34668A60.536F@sage.dri.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Chuck Adams wrote:
>
> I am setting up a meeting with N5TJ. Gotta find out
> how the kid does it with two radios blasting away at
> one time. :-)
>

Hmmmm, some guys will go to untold lengths to win.....
All I did was put up a little antenna..... I didn't go
hire a trainer..... :-)

(Hmmmm, come to think of it, Tree doesn't live that far
away and he wrote the book about 2 radio contesting!)

:-)

(Give Jeff my congratulations and thank him for giving
me something to shoot for...) :-)

cul,

--
73, Ron, KU7Y

NRA Life------Ex W6JXO, DL4RF, N7CRV------SOWP #5545-M
QRP QRCI #8829----NorCal #330----QRP-L #17-----ARS #49
AR QRP #150--------DM09cg---------New Washoe City, NV

Date: Sun, 09 Nov 1997 22:17:54 -0600
From: Wayne Alexander <walexander@wwn.net>
To: qrp-l@Lehigh.EDU
Subject: [30549] RE:NORCAL STRAIGHT KEY
Message-ID: <3.0.3.32.19971109221754.006b8e88@pop.wwn.net>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

     Well if you could copy code, it would not bother you at all.
 Bugs will live forever!!!!!!!!!
Long live the BUGS!!!!!
STRAIGHT Keys were the first.
So I guess you don't like Straight Key night.
Each to there own.

73
KB0PTE
Wayne

Date: Sun, 09 Nov 1997 23:20:31 -0600
From: Bob Liesenfeld <wb0poq@visi.com>
To: qrp-l@Lehigh.EDU
Subject: [30550] Arrl Radio Designer
Message-ID: <3466999F.5E36110C@visi.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

>Does anyone have any experience with the ARRL Radio Designer software? Is
>anyone using it to work on the 2N2 project?

  I have it, and have used it quite extensively, but not on this project   :-)
72

--
Genuine E-mail From the Land of the Everlasting Icicle...
Bob Liesenfeld
wb0poq@visi.com

Date: Sun, 9 Nov 1997 23:36:45 -0500
From: Ricky McNelly <72507.235@compuserve.com>
To: qrp-l@Lehigh.EDU
Subject: [30551] Help identify connector
Message-ID: <199711092339_MC2-2797-4707@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

To: > INTERNET:qrp-l@Lehigh.EDU

Hello All,

(not QRP related)

I brag alot about the level of knowledge available on this list and a friend has asked for help so here goes.

He is trying to connect a military headset w/mike to his rig and is looking for the matching receptacle for the headset connector to plug into.

<< The male connector I have is MS3476L12-10P. I need the female recepticalfor that plug. >>

I've already suggested cutting off the plug and making up a new one that matches his rig. And I've asked him to email me more info on the make of the headset. If anyone can help please email me or my friend Stu Spatz at sspatz@infi.net.

72/73,

--Rick, KE4IZH

Chesapeake, VA 11/09/97.

Date: Mon, 10 Nov 1997 00:19:08 -0500 (EST)
From: ARDUJENSKI@aol.com
To: qrp-l@Lehigh.EDU
Subject: [30552] N/T+ Foxhunt of 10 NOV 0200-0400 UTC
Message-ID: <971110001907_1049241959@mrin39>

WOW! Boy the hounds were hungry tonite. This is a record for me! I hid in the QRM and you still found me. OUTSTANDING JOB! Thanks for hang'n in there. I heard some "1" at the beginning but lost you...SRI.....Let me know if I missed you. Any corrections???

PRELIMINARY N/T+ Foxhunt of 10 NOV 0200-0400 UTC

TIME	STATION	NAME	STATE	RST(S)/(MY)	PWR
0203	K50N	GARY	NM	559/579	5W

```
0205 K8DD      HANK MI        559/569        5W
0208 N3YSI          PAUL PA        559/549        5W
0210 KU7Y      RON  NV        599/589        5W
0212 VE5RC          BRUCE     SK        579/559        5W
0215 K5ID      KEN  AR        449/449        5W
0218 N4ROA          DAN  VA        339/339        5W
0225 W3PNL          JOE  PA        449/579        5W
0228 NQ7X      FLOYD     AZ        559/559        #334
0240 N2TNN          DEAN NJ        559/599        #560
0245 WA9PWP    PAUL WI        449/449        5W
0248 N6WG      BOB  CA        339/339        5W
0252 N9AW      JERRY     WI        339/449        #127
0255 WB0T      JERRY     IA        339/339        #168
0300 W7JDZ          MAC  ID        559/559        5W
0306 W0CH      DAVE MO        339/449        5W
0311 W7SSM          JOHN CA        339/339        2W
0317 W9UQB          MIKE AZ        339/449        5W
0320 AF9T      JOHN      MN        569/559        5W
0324 KB0ZDF         DEAN IA        339/359        5W
0328 KE0WW          MIKE MN        339/339        5W
0336 KA5T      LARRY     TX        339/339        5W
0340 VE3ELA         KEN  ONT  339/339        2W

Station:  KB7MBI
FREQ:.....    7.120
RIG.........      EMTECH NW8020 (40M) and filter
PWR......5W
ANT:......    DIPOLE (N-S)up 50 ft



------------------------------

Date: Sun, 9 Nov 1997 23:06:28 -0700 (MST)
From: James P Rybak <jrybak@mesa7.mesa.colorado.edu>
To: qrp-l@Lehigh.EDU
Subject: [30553] Mike Bryce's Antenna T/R Circuit???
Message-ID: <Pine.OSF.3.91.971109230049.2020A-100000@mesa7.mesa.colorado.edu>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII


A couple of years ago, Mike Bryce had a nifty T/R circuit in his QRP
column in "73 Amateur Radio Today" magazine.  The circuit used a relay
from Radio Shack.  Can anyone please tell me the month and year of that
particular column?

Thanks.
```

Jim Rybak W0KSD

Date: Mon, 10 Nov 1997 00:37:11 -0600
From: n5inz@Juno.com (John M Andrews)
To: bkassel@dancris.com
Cc: qrp-l@Lehigh.EDU
Subject: [30554] Re: 2N2 VFO
Message-ID: <19971110.003711.4086.5.N5INZ@juno.com>

Hi Brian,

What I'm using is a common-collector Colpitts. I think where I goofed may be
that tried to get the buffer amp to do too much work. A better solution might
be to use 2 transistors(one acting as a *true* buffer) after the oscillator.

There is no room for anything sloppy given the design parameters.

I'll go back with:

A -7 core or ceramic form with at least a high quality slug for tuning.

C0G/NP0 caps

Brass or steel plate variable caps. Double bearing.

1/2 or 1 watt resistors(Don't laugh- It helps disipate heat).

Better shielding.

If you still need an idea, try this months CQ and The ARRL Data Book(The ARRL
book has the best ideas for this application).

Let the cockroaches scurry!

72, John-N5INZ

Date: Mon, 10 Nov 1997 02:18:14 -0500
From: Scott Bauer <ke3nv@erols.com>
To: qrp-l@Lehigh.EDU
Subject: [30555] RE:NORCAL STRAIGHT KEY
Message-ID: <199711100718.CAA14804@smtp3.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Date: Sun, 09 Nov 1997 22:17:54 -0600
>Reply-To: walexander@wwn.net
>Sender: owner-qrp-l@Lehigh.EDU
>From: Wayne Alexander <walexander@wwn.net>
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Subject: RE:NORCAL STRAIGHT KEY
>X-Sender: walexander@pop.wwn.net
>X-Listprocessor-Version: 8.1 beta -- ListProcessor(tm) by CREN
>
 Congratulations on your recent upgrade Wayne!

Well if you could copy code, it would not bother you at all.
> Bugs will live forever!!!!!!!!!
>Long live the BUGS!!!!!
>STRAIGHT Keys were the first.
>So I guess you don't like Straight Key night.
>Each to there own.
>
>73
>KB0PTE
>Wayne
>
>
>

Date: 10 Nov 1997 11:34:33 +0000
From: Dave.Ackrill@LotusXchgPG.powergen.co.uk
To: fist1@compuserve.com, gqrp-l@blacksheep.org, qrp-l@Lehigh.EDU,
aprssig@tapr.org
Subject: [30556] GB2RS Propagation Reports
Message-ID: <971110113433Z*/G=Dave/S=Ackrill/O=LotusXchgPG/PRMD=POWERGEN/
ADMD=CWMAIL/C=GB/@MHS>

Dear All,

You will see from the header that I am sending this message to a variety of people and lists, please feel free to distribute it wider and include it in any Club Newsletter etc., as you wish. The reason that I am sending this information is that I think that you, or the list, might find it useful either because it is about CW or that the propagation predictions may be of interest (the APRS List has recently been talking about trying to spot stations in other parts of the world on 18MHz).

Every Sunday an updated propagation information and predictions for likely conditions are transmitted using CW on 3.518MHz at about 15 WPM the times being as follows:-

Time (Local UK)	Frequency	Stations transmitting
09:00	3.518MHz	G4FKH (Chelmsford) or G2FKZ (Wakefield)
12:00	3.518MHz	G4FKH (Chelmsford) or G2FKZ (Wakefield)
15:00	3.518MHz	G4FKH (Chelmsford) or G2FKZ (Wakefield)
18:00	3.518MHz	G4FKH (Chelmsford) or G2FKZ (Wakefield)

NB: At present, UK Local time is the same as UTC (GMT). In March the UK normally transfers to British Summer Time (BST) and the transmissions will then be 1 hour ahead of UTC. For example, the 09:00 transmission will be at 08:00 UTC during the summer months from March until October. Exact swap over between UTC and BST are decided by the UK government, but change to BST is usually around the last weekend of March and swap back to UTC on the last weekend in October.

The information is automatically uploaded from various sources and an indication of the likely paths from the UK are added for the assistance of those who want to try various paths. Although the predictions are relevant to the UK or nearby European countries, the actual figures for Solar Flux etc., could be put into a suitable computer program set up for your own location of course.

If you hear the transmissions, please send me a report and I will pass it onto either G4FKH or G2FKZ as they are sometimes asked questions like "Can it be heard from X using a Y antenna?" and reports from anywhere can help to give some indication of the coverage area.

Thanks a lot and good luck with propagation where ever you may be.

73 de Dave (G0DJA)

dave.ackrill@pgen.com

Date: Mon, 10 Nov 1997 08:04:29 -0500
From: "Christopher Moore" <christopher.moore@snet.net>
To: <qrp-l@Lehigh.EDU>
Subject: [30557] QRP Attitude
Message-ID: <199711101307.IAA00155@midfire5.aetna.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Sometimes, the best way to identify something is to determine what it is not. Recent notes on this list raised my curiosity about 12 meters. So, with nothing better to do on a Sunday afternoon, I started tuning around on 12 meters. I didn't hear any DX, but did come across an SSB station from the great Southwest calling CQ. He made contatct with a WB2 station (which I couldn't hear). I listened to about 10 minutes. He spent most of the time hyping the new Icom 746 rig. He's a big Icom fan, and, by the sound of it, he is probably the first in line to buy every new rig they put out.

Fortunately, there's still room in the hobby for those who just enjoy getting on the air using simple antennas and living within a modest budget.
73 Chris W1GM

Date: Mon, 10 Nov 1997 08:45:39 -0500 (EST)
From: aa8yo@tir.com (Bob Fox)
To: qrp-l@Lehigh.EDU
Subject: [30558] Norcal Paddles
Message-ID: <199711101345.IAA19859@sun.tir.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gang,

I know there has been a lot of discussion about the
new paddles. Got mine Friday and started working
on them last night.

All I can say is if you have'nt gotten a kit yet, what
are you waiting for ? These are really nice paddles
and you can't beat the price. Plus you really build
up your fist with all the sanding you will be doing...

73 - Bob / AA8YO

---
      e-mail: aa8yo@tir.com
   FISTS #3056 QRP-L #1174
QRP-ARCI #9487 MI-QRP #1595
      Amateur Radio Operator
   Amateur Civil War Historian

Date: Mon, 10 Nov 1997 07:57:15 -0600
From: "Rattray, Bruce" <Rattray@siast.sk.ca>
To: "'QRP-L'" <qrp-l@Lehigh.EDU>
Subject: [30559] Thursday Fixes
Message-ID: <ABB04875E11AD01191A40000F83092BE3B3F41@stone.siast.sk.ca>
MIME-version: 1.0
Content-type: text/plain
Content-transfer-encoding: 7BIT

...all right, all right!
...all you hunters south of the Canadian/USA border line up against the cement wall.......now!
...shuffle shuffle shuffle...
...ok....now I'm gonna ask you this question just ONCE!...HEAR!?!
...once only...
...listen up!...
...who was the clown that ordered up that &$*(#^$& AURORA, Thursday night so that Earl (VE5WF) and myself couldn't even hear the pileup let alone the blankety-blank FOX!?!?!......and just to give us a little extra dig you called the aurora off for about 60 seconds to we COULD hear the pileup and the Fox...eh? eh? EH??
...teeth grinding...
...we canucks have our "auroras" too ya know...heh,heh,heh....;-)

....what fun!...72 - Bruce (VE5RC) QRP-L#886
"QRP! How sweet it is!"

e-mail: rattray@siast.sk.ca

Date: Mon, 10 Nov 97 13:49:30 UT
From: "LLOYD DEEM" <WH6CDU@classic.msn.com>
To: qrp-l@Lehigh.EDU
Subject: [30560] re: good ant
Message-ID: <UPMAIL18.19971101352530003@classic.msn.com>

I have the Comet CA-HV it worked well when I was in Japan on the sixth floor and it worked fairly well here in Arkansas I use it has a mobile now. Another good antenna is the MFJ verticle dipole it breaks down into two peices of about five and half feet each. Check page 69 of the Oct 97 QST for another idea.

72/73 wh6cdu Lloyd M. Deem

Date: Mon, 10 Nov 1997 15:06:30 +0100
From: Paolo Sassoli <sassoli@ii1wh10.settimo.italtel.it>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [30561] rec.radio lists info needed
Message-ID: <346714E6.B6FC4EA2@ii1wh10.settimo.italtel.it>
Mime-Version: 1.0
Content-Type: multipart/mixed; boundary="------------C913DD40EAB6971DA928752E"

This is a multi-part message in MIME format.
--------------C913DD40EAB6971DA928752E
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sorry for the bandwidth, but does anyone know how can I subscribe to the "rec.radio.amateur..."lists?
Thanks.

--------------C913DD40EAB6971DA928752E
Content-Type: text/x-vcard; charset=us-ascii; name="vcard.vcf"
Content-Transfer-Encoding: 7bit
Content-Description: Card for Paolo Sassoli
Content-Disposition: attachment; filename="vcard.vcf"

begin: vcard
fn: Paolo Sassoli
n: Sassoli;Paolo
org: Italtel spa
email;internet: sassoli@ii1wh10.settimo.italtel.it
x-mozilla-cpt: ;0

x-mozilla-html: FALSE
version: 2.1
end: vcard

--------------C913DD40EAB6971DA928752E--

Date: Mon, 10 Nov 1997 08:18:19 -0600
From: "Jeff M. Gold" <jmg@tntech.edu>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [30562] Norcal Paddles
Message-ID: <346717AB.1A097704@tntech.edu>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Well, I had a great time this weekend building my paddles. I disregarded all comments about how many zillions of hours this was to take and all problems that might be encountered, also disregarded most of the instructions.. EXCEPT the exploded diagram.

THE BASE

I used an electric drill with a wire brush attachment to clean off the base, then some sandpaper. I went to a local automotive chain store and bought some good quality flat black spray paint that was quick dry ($3.99). The base looks great!!!! Pain dried very quickly and seems really durable.

THE BRASS
---
think I read and maybe in the instuctions about long tedious work getting the brass parts ready. I used some fine steel wool and in about 15 minutes all parts looked great.

ASSEMBLY
---
looked at the diagram blow up.. super well done, like this much better than reading directions. Had to file back set screws to get them to fit and file down the 1" screw on bottom. No problems encountered.

This is one great looking set of paddles!!!!

I am always amazed at what Norcal puts out and how they do it.. think

Doug H. might have something to do with getting things done, but want
ALL people to know there are a large number of us out here that REALLY
appreciate all the hard work and quality kits you bring us.

THANKS!!!
72
Jeff, AC4HF

--
Jeff M. Gold, Manager
Academic Computing Support
Tennessee Technological University
(615)372-3979

Date: Mon, 10 Nov 1997 08:29:55 -0600
From: "Jeff M. Gold" <jmg@tntech.edu>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [30563] forgot-norcal paddles
Message-ID: <34671A63.CBAEEF2E@tntech.edu>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

forgot one sections:

I used a dremel to cut the plexiglass and then grind and shape it, to
pretty much the way the picture looks. I then used sandpaper to round
edges, then used a butane torch to smooth all out. The paddles look
great!!!! and I sure enjoyed customizing them.

72
Jeff, AC4HF
--
Jeff M. Gold, Manager
Academic Computing Support
Tennessee Technological University
(615)372-3979

Date: Mon, 10 Nov 1997 09:41:06 est
From: k4wz@juno.com (RON L TODD)
To: cw@qth.net, qrp-l@Lehigh.EDU
Subject: [30564] FORE SALE

Message-ID: <19971110.094107.8343.36.K4WZ@juno.com>

LOOKS LIKE THE FOLLOWING IS SOLD
AT-11 TUNER
QRP TUNER
CENT SSB TRANCEIVER
RAINBOW TUNER
ISLANDER KEYER
TEN TEC LOW PASS FILTER
TIMEWAVE DSP 59+

OTHER ITEMS FOR SALE
MFJ TUNERS.....945E.....$50.00 949E.....$85.00
INDEX LAB QRP INCLUDING COMPANION BATT.....$550.00
MFJ 1270C TNC 9600 BAUD W/2400 PCB.....$100.00
VANGAURD SG-100D.....$35.00
CAKEPAN TRANSMITTER FACTORY ASSEMBLED.....$85.00

RON K4WZ, MIKE AF4FF, MATT AF4FE, BETH KU4JG
FISTS # 2109, #3534 #3533
PO BOX 885, FOREST PARK, GA. 30298
K4WZ, EX WA4EPC, KE4RZR, AE4LQ
QUIT YOUR YAPPING, JUST START TAPPING !

Date: Mon, 10 Nov 1997 09:48:18 -0500
From: "Heron, George" <G.Heron@dialogic.com>
To: njqrp@njqrp.org, QRP-L <qrp-l@Lehigh.EDU>, LIQRP <liqrp@waterw.com>
Subject: [30565] RE: Doghouse Operation Sprint & 609 Team
Message-ID: <DF8C9288E968D011A5950060972035B102254AA3@mailnj.dialogic.com>
MIME-Version: 1.0
Content-Type: text/plain

Ken,

When I consider the subject of "super classes", the 201 Team would have to take the prize for containing the most contesters, I think. Based on this fact, all other area code teams would then be able to take advantage of this polymorphism and inherit from the 201 Super Class. (Sorry, a little software development humor.)

Looking forward to the Doghouse Sprint on the 22nd! Here's a chance for all those west of the Mississippi to get an east coast contact of special note.

72,

--George N2APB
g.heron@dialogic.com

PS: Check out the NJQRP website for details of the Doghouse Sprint.
PPS: Also thinking about getting a NYCLI/NJ/DC map posted on the
website depicting the location of all the different area codes ...
anybody have a good source? How about a phone book page that can be
scanned in? (and sent electronically to me ... on the road right now)
Or even better, how about a Ma Bell website already containing this?

     ==========

> The Doghouse Operation Sprint will have, without a doubt, the lead
> Team for this event! 609 has the best of the best when it comes to
> QRP Contesting so why not have a 609 team to show what SNJ can do.
>   What? you say there wasn't anything mentioned about teams in the
> Doghouse Operation Sprint? WHY NOT? The 609 Team needs some
> competition
> even though we will blow away any other area code enteries.
>   OOPS, I got the house before the dog.
>
> **
> ******
>   Anyone out there on 609 area code
> that would like to join the 609 Team for "THE Doghouse Operation
> Sprint"?
>
> **
> *******
>
> The "Other Special Area Code Teams" could be given a "Special Mention"
> category
> since the 609 Team will be a "Super" class of its own.
>
> 72/73,
> Ken Newman, N2CQ
>

     ==========

 Hi gang,

This is the first contest sponsored jointly by the LIQRP and NJ-QRP
Clubs,
and we would like your support. Please let us know if you can make it
on
November 22nd for the Sprint.

Announcing the LI/NJ QRP Doghouse Operation Sprint [... snip]

Date: 10 Nov 1997 14:54:47 +0000
From: Dave.Ackrill@LotusXchgPG.powergen.co.uk
To: gqrp-l@blacksheep.org, qrp-l@Lehigh.EDU
Subject: [30566] KW E-Zee Match (Update)
Message-ID: <971110145447Z*/G=Dave/S=Ackrill/O=LotusXchgPG/PRMD=POWERGEN/
ADMD=CWMAIL/C=GB/@MHS>

Following my previous message, over my lunch break I had another go at loading the doublet up on 40M using the KW E-Zee match. After much fiddling, I managed to get a reasonable match (about 1.5:1) on 40M, but the settings were very "touchy" and I guess that if I wander off the frequency for which I have set the match by very much then I will have to retune the ASTU. Also, the settings of the two capacitors are very close to their minimum values (i.e., all the vanes unmeshed) which leads me to think that it's an unfortunate combination of the 40M long doublet and 5M length of open wire feeder together with the values of C and L in the E-Zee Match.

Hope to test out the various bands tonight. QRP of course!

Again, all input about this particular ASTU and Z matches in general gratefully received.

72 de Dave (G0DJA)
dave.ackrill@pgen.com

Date: 10 Nov 1997 14:51:09 +0000
From: Dave.Ackrill@LotusXchgPG.powergen.co.uk
To: gqrp-l@blacksheep.org, qrp-l@Lehigh.EDU
Subject: [30567] KW E-ZEE Match
Message-ID: <971110145109Z*/G=Dave/S=Ackrill/O=LotusXchgPG/PRMD=POWERGEN/
ADMD=CWMAIL/C=GB/@MHS>

As I was looking for some wide spaced capacitors at a local rally yesterday, which I wanted to use to build a balanced ASTU, I came across an unit made by a company called KW (which was a well known and respected maker of radio gear in the UK, originally started by a gentleman with the callsign G5KW I believe) called an "E-ZEE Match".

Since I managed to haggle the price down to a reasonable level I bought

the unit and opened the covers when I got home. By tracing the circuit and checking a few of my books, I found that it was a 'Z Match' type of ASTU, which was ideal as I wanted a unit to load up a doublet fed with open wire feeder. If anyone hasn't come across this design, I'll put a simple circuit diagram at the end of this message.

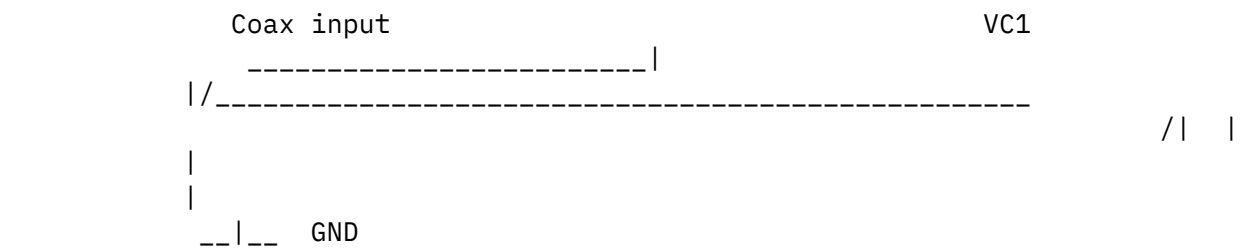
Now comes the questions; on loading up my doublet consisting of 5 metres of open wire feeder and a 40 metre length of wire as an inverted Vee, fed in the centre (i.e., a dipole for 80M), I found that the one set of terminals would load the antenna on 80M (which was as per the circuit diagrams which I had found) but would not load on 40M. However it would load up on 30M using the 80/40M terminals. Using the other set of terminals, I could find reasonable matches on all the HF bands to 10M, including the other WARC bands of 17 and 12M. Have I just hit a strange impedance on 40M with the length of feeder, or is the top section being about a full wavelength on 40M causing me problems?

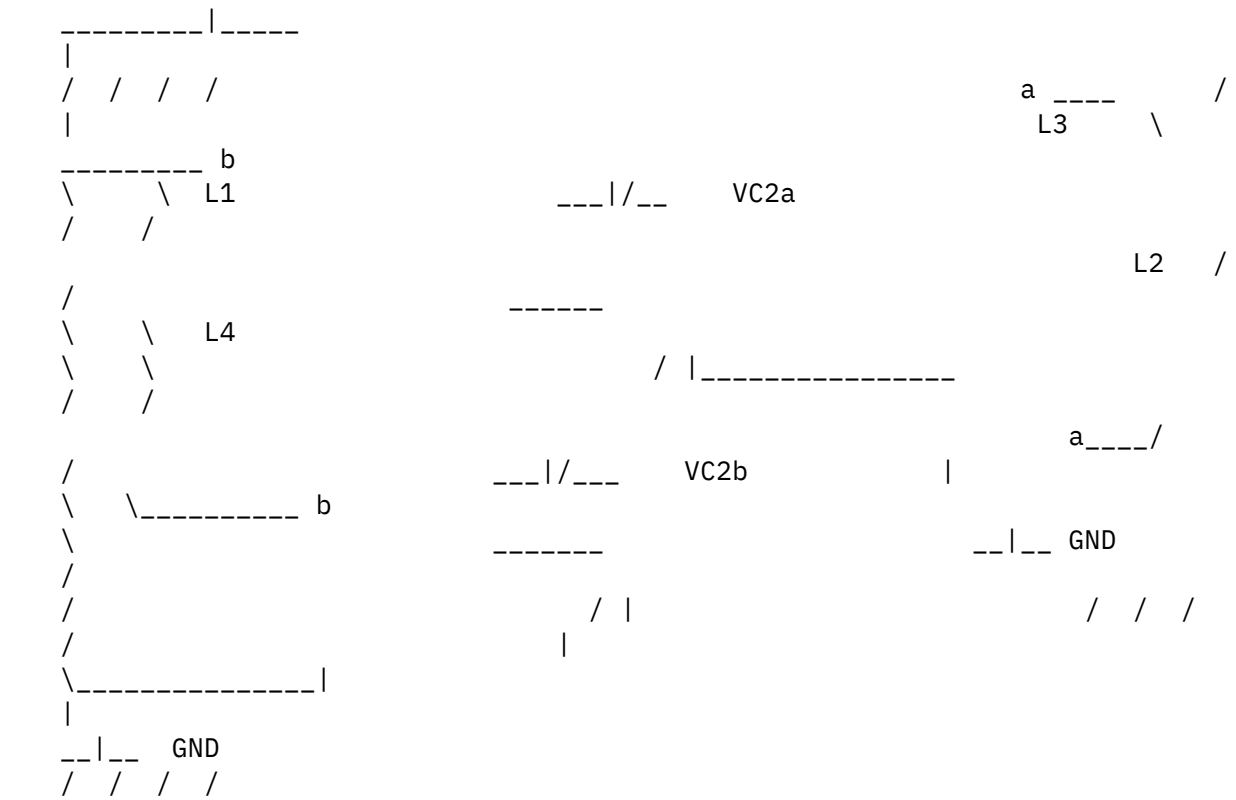
Also, on examining the unit I noticed that the capacitors are what I would term 'receiver' types, that is the spacing between the plates is quite small. I have noticed a tendency for such capacitors to flash over in the past, even when running low power, as the voltage across these capacitors can be quite large at times. So, what experience have others had with using the KW E-ZEE match please, or other Z match units? What sorts of voltage levels do people think that these capacitors can handle? I would guess that the worst case is going to be a half wave end fed antenna, which David (G4HYY) suggested might be possible using a similar circuit in the QRP Antenna Handbook.

Any information on the unit would be gratefully received, although it is a fairly straightforward unit to work out what does what, there was no instruction manual with the unit, so I wonder what maximum power input was recommended by the original manufacturer and what, if any, advice was given about feeding certain systems, where the voltage at the feed point might be quite high?

Thanks very much - de Dave (G0DJA)
dave.ackrill@pgen.com

Circuit of the KW E-ZEE Match (Z Match type ASTU)





VC1 = Single section variable capacitor (value unknown)
VC2a and VC2a = Dual section variable capacitor, shaft earthed (values unknown)
L1 = 7 turns silvered wire inside L2
L2 = 6 turns silvered wire outside L1
L3 = 10 turns silvered wire inside L4
L4 = 7 turns silvered wire outside L3

terminals a - a used for HF bands (20/17/15/12/10M)
terminals b - b used for LF bands (80/40/30M)

Date: Mon, 10 Nov 1997 14:40:33 +0000 (GMT)
From: Kevin Muenzler WB5RUE <wb5rue@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Cc: Paolo Sassoli <sassoli@ii1wh10.settimo.italtel.it>
Subject: [30567] rec.radio lists info needed
Message-ID: <19971110.144033.wb5rue@amsat.org>

>Sorry for the bandwidth, but does anyone know how can I subscribe to the
>"rec.radio.amateur..."lists?
>Thanks.

The following are supported from ucsd.edu and are sent out in digest form.
rec.radio.amateur.antenna
rec.radio.amateur.equipment
rec.radio.amateur.homebrew
rec.radio.amateur.policy
rec.radio.amateur.space
and maybe a few others
to "subscribe" to these lists do the following:
for antenna send your request to <Ham-Ant-REQUEST@UCSD.Edu>
for equipment send it to <Ham-Equip-REQUEST@UCSD.Edu>
for homebrew send it to <Ham-Homebrew-REQUEST@UCSD.Edu>
for policy send it to <Ham-Policy-REQUEST@UCSD.Edu>
for space send it to <Ham-Space-REQUEST@UCSD.Edu>

Leave the subject blank and in the text of the message type the message
ADD list title

so for ham-antenna you would have in the text of the message
ADD ham-ant
for equipment you would have
ADD ham-equip
and so on.

You may get several digests each day for the more active lists.
Usually these digests are a maximum of 16K. But if someone
posts a binary they can be VERY large. I don't remember the
exact command format but I think that a HELP command will
get you started.

Kevin, WB5RUE
wb5rue@stic.net
Linears? We dunt need no steenking linears!

quit

Date: Mon, 10 Nov 1997 10:13:15 -0500
From: Zack Lau <zlau@arrl.org>
To: qrp-l@Lehigh.EDU
Subject: [30568] Re: Ten-Tec 2M transverter kit
Message-ID: <3467248B.1285@arrl.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I've worked aurora with 10 watts to an indoor yagi.
Tropo out to 300 miles isn't too hard with a good
band opening.

10 watts with satellites is probably the toughest
of the three--there is lots of competition on 2
meters, and interference from non-amateurs.

I'd recommend 6 meters, though you might not be able
to work anything if the band isn't open. Sort of like
owning a telescope in New England--weeks can pass
before the stars come out... Much more fickle than
HF, but this makes it fun for lots of hams.

Date: Mon, 10 Nov 1997 10:10:18 -0500 (EST)
From: Jim Eshleman <lujce@hooch.cc.Lehigh.EDU>
To: adams@chuck.dallas.sgi.com
Cc: qrp-l@Lehigh.EDU
Subject: [30569] Re: SPICE Info
Message-ID: <97Nov10.101027-0500_est.10421-16694+15@hooch.cc.Lehigh.EDU>
Content-Type: text

  RSPICE/RGRAPH 3.4 is available at:

     ftp://ftp.lehigh.edu/pub/listserv/qrp-l/tools/rs34.zip

Unzip RS34.ZIP in the root directory of your hard drive, which will
produce INSTALL.BAT and RS34.EXE, then run:

     INSTALL x: x:

where x: is the hard drive designator. Read the x:\RCGV34\READ.ME file.

73
Jim N3VXI

Date: Mon, 10 Nov 1997 10:20:34 -0500
From: Zack Lau <zlau@arrl.org>
To: qrp-l@Lehigh.EDU
Subject: [30570] Re: 2222 Project Design Trade Offs
Message-ID: <34672642.61CD@arrl.org>

Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Square wave LO reduces the IMD caused by the "dead zone" as
the diodes switch.

Converting sine waves to square waves converts the noise into
jitter, preserving the noise in the digital domain.

Date: Mon, 10 Nov 1997 15:26:48 GMT
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: qrp-l@Lehigh.EDU
Subject: [30571] RCGV3.4
Message-ID: <199711101526.PAA22800@chuck.dallas.sgi.com>

Gang,

A million thanks to Jim, N3VXI, for the fine work on getting
the SPICE PC program so you guys/girls can get to it. Be
sure to run the demo programs and look at the results.

Again, a 386 or better with math coprocessor required for the
software to work. Lots of memory helps but most people have
that already.

Enjoy.

A series of help postings and articles to follow.

dit dit
Chuck Adams K5FO CP-60 adams@sgi.com
http://reality.sgi.com/adams/index.html

Date: Mon, 10 Nov 1997 09:29:37 -0600
From: "Adam B. Kanis" <adam-kanis@uiowa.edu>
To: qrp-l@Lehigh.EDU
Subject: [30572] Marylander Hospitality
Message-ID: <3.0.32.19971110092937.006ab630@molsun.ophth.uiowa.edu>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

hi all,

i'll keep it short, but wanted to publically thank all the qrp'ers from the maryland milliwatt group that welcomed me to the baltimore/dc area when i was in the area attending a conference. i saw that the names were posted already, so won't repeat them. wasn't able to spend enough time with each person in attendance, but the company was enjoyed regardless.

RE:QRP - now that i'm back, and work pressure has decreased (mostly), i'll be back into operating and building. If the ground doesn't freeze too soon, i hope to get my multiband vertical up. When the EleCraft K2 kit materializes, i'm looking forward to going for it!

73,
--adam, n2brt
adam-kanis@uiowa.edu

Date: Mon, 10 Nov 1997 10:41:14 EST
From: w1aaz@juno.com (Ed Pacyna)
To: qrp-l@Lehigh.EDU
Subject: [30573] Re: 2222 Project Design Trade Offs
Message-ID: <19971110.104043.9439.1.w1aaz@juno.com>

On Mon, 10 Nov 1997 10:20:34 -0500 Zack Lau <zlau@arrl.org> writes:
>Square wave LO reduces the IMD caused by the "dead zone" as
>the diodes switch.
>
>Converting sine waves to square waves converts the noise into
>jitter, preserving the noise in the digital domain.

I looked into this a year ago and strongly agree that driving diode ring type mixers with a square wave will result in increased performance (as several others have posted).

However, the squared signal must be symmetric with a 50-50 duty cycle. A Johnson or twisted ring type counter will satisfy this condition. In addition, other benefits will be reduced frequency drift, phase noise and they can also provide wide band 90 degree I/Q for single conversion direct conversion receivers.

73

Ed, W1AAZ

Date: Mon, 10 Nov 1997 10:42:26 -0500 (EST)
From: HIMES@idicl1.idi.oclc.org
To: qrp-l@Lehigh.EDU
Subject: [30573] Paddle Finishing
Message-ID: <01IPUBFHN88YBOTAFT@idicl1.idi.oclc.org>
MIME-version: 1.0
Content-transfer-encoding: 7BIT

Hi Folks,

I got the paddle kit Friday and can report all parts fit nicely.
The magnet is somewhat loose but superglue will fix that.

I sanded the brass parts first with #400 wet-or-dry paper (I used
it dry) on a very flat surface. They cleaned up in just
a few strokes. Then I used a buffing wheel on my drill with
some brown tripoli polishing compound for about a minute on each
surface. Then I switched to a different buffing wheel and some
white rouge compound and did the same polishing. I had all the parts
buffed to a mirror-smooth finish in about 30 minutes.

This is an excellent kit. Good work NORCAL.

Marty WB8FNH

Date: Mon, 10 Nov 1997 08:32:23 -0700
From: Brad Mugleston <bmug@gwl.com>
To: "bruce@shore.net" <bruce@shore.net>, "'Paul Erickson'"
<paul1@wizard.ucs.sfu.ca>
Cc: CW - Reflector <cw@qth.net>, qrp <qrp-l@Lehigh.EDU>
Subject: [30574] RE: [CW] NorCal paddle kit
Message-ID: <01BCEDB3.2BA9ABC0@pps-pc10.gwl.com>
Content-Type: text

Blued, I thought of that. Haven't made up my mind. Let us know how it turns out.

De KB0ROL, Brad

From: Paul Erickson[SMTP:paul1@wizard.ucs.sfu.ca]
Sent: Sunday, November 09, 1997 7:28 PM
To: bruce@shore.net
Cc: qrp; CW - Reflector
Subject: Re: [CW] NorCal paddle kit

>
Hi Bruce,

A few suggestions that you may hear from any other Knife makers/builders
on the list. 60 grit emery is the place to start. I would recommend that
you lay a sheet on a flat surface and rub the block until the scratches
are going all one way. Then change to the next finer grade and change the
angle of the block, and sand it until the scratches are all the same way.
Work through the various grades up to 400 and 600. By the time you reach
600 the surface will begin to look like a mirror. Then some final work with
polishing compound and you should be able to shave in the reflection.
I will be doing this with mine as I intend to see how it looks blued.
If you just intend to paint it, you can stop at 400 grit. It will take
time, but the results will be worth it.

cheers, Paul
VE7CQK
email: paul1@wizard.ucs.sfu.ca
>
> Has anyone else here bought and assembled the new NorCal paddle kit? If so,
> did you have any trouble sanding/polishing the cold rolled steel base? This
> piece of metal seems to be made of kriptonite! I have tried 60 grit
> sandpaper like the instruction sheet recommends (forget it) and have now
> been blasting away with 60 grit emery cloth. All of this has been done with
> a hard rubber sanding block. I have the surface pretty smooth now but there
> are still a couple of small scratches and imperfections I'm trying to
> remove.
>
> VERY slow going.
>
> Bruce Marshall - k1AJ
> bruce@shore.net
> http://www1.shore.net/~bruce/
> "That which is well conceived is well articulated." - Boileau
>
> <   >
> < * * * * * * * * * * * * * * * * * * THE CW REFLECTOR * * * * * * * * * * * * * >
> __Subscribe   To: Majordomo@qth.net with Body: subscribe cw
> __Unsubscribe   To: Majordomo@qth.net with Body: unsubscribe cw
> __To post, send to cw@qth.net   please, CW issues only

> __For digest version, Subscribe to cw-digest through majordomo@qth.net
> __For archives of postings, see web page http://www.qth.net/cw-digest.archive
> __To contact list owner, email to owner-cw@qth.net
>
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< * * * * * * * * * * * * * * * * * THE CW REFLECTOR * * * * * * * * * * * * * * * >
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__For digest version, Subscribe to cw-digest through majordomo@qth.net
__For archives of postings, see web page http://www.qth.net/cw-digest.archive
__To contact list owner, email to owner-cw@qth.net

Date: Mon, 10 Nov 1997 10:54:38 -0500
From: Ronald D Rossi <rrossi@btv.ibm.com>
To: ki7mn@dancris.com
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [30575] Re: Norcal Paddle-plexiglass paddle
Message-ID: <199711101554.KAA19182@johnpaul.btv.ibm.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

>>>Bob Hightower said:
> At 02:18 PM 11/8/97 -0600, you wrote:
> >Did everyone get a plain square for the paddle handles? the
> >picture for the assembly show a nice shaped paddle handle.. mine
> >is just a square.
> >
> >
> Should have one corner knocked off....maybe the saw blade broke :^)
>

Mine came square too. Got the kit Friday.

--
73 de KK1L ex N1PBT...ron (rrossi@btv.ibm.com) <><
Ron Rossi H/P SRAM Engineering -- IBM Microelectronics
QTH: Swanton, Vermont

Date: Mon, 10 Nov 1997 08:05:28 -0800
From: "Frank A. West" <ke6vhm@earthlink.net>
To: <jrybak@mesa7.mesa.colorado.edu>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [30576] Re: Good Antenna for Portable QRP????
Message-ID: <199711101619.IAA10799@iceland.it.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

I originally purchased the Outbacker by Perth. Found it to be a lot of work for what you get. One band at a time only. You must stop and change the "Wand" to change bands. The Wand must be wound just right per the instructions or it may not load well. And to use it for 2m or 6m you have to change the whip on top. This all seems to be a major pain in the @#$. Since my primary rig is so versatile I decided this was not for me.

I run an Icom 706 QRP/QRO as well as a few homebrew rigs.

Since my experience with the Perth I have changed to the Comet CAHV. I can run 2m, 6m, and any 2 HF bands with just the flick of the dial. Good quality receive and favorable signal reports. Comet has many styles for mounts. Like anything you use make sure the ground is VERY good.

I have heard some that swear by the Perth series. But they all mention the hassle for changing bands.

TTFN 73 Frank KE6VHM
Grid Square DM13
CW Forever

> From: James P Rybak
> What is considered to be the best whip type antenna for operating portable, the Outbackers, the Ham Sticks, or what? Has anyone tried the Comet CA-HV?
> Thanks.
> Jim W0KSD

Date: Mon, 10 Nov 1997 11:30:59
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@Lehigh.EDU

Subject: [30576] bugs, keys and paddles
Message-ID: <3.0.1.16.19971110113059.26c7d9b2@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

With the risk of really starting some flames, I agree that bugs should be squashed, or at least left on the shelf to admire the fine craftmanship.

It's easy to tell if someone is using a bug, the dits are too short and fast, the dahs are too long and generaly there are no spaces between letters or words.

Paddles and keyers are a boom to mankind, provided one remebers to put the spaces between letters and words.

Straight keys are great because the speed is infinatly adjustable and on the fly. Add to that thier inherent simplicity and no need for extra electronics to make them work.

But what ever you use to make Morse, please don't run your characters together. It really helps if there are spaces between letters and words.

BTW, last night, I hacked together a crude key with plexiglass and a magnetic spring. Works well enough to think of making a more practical version.

72,
Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Mon, 10 Nov 1997 11:51:38 -0500
From: "James R. Johns" <jrjohns@mail90.mitre.org>
To: qrp-l@Lehigh.EDU
Subject: [30577] RCGV3.4 SPICE
Message-ID: <3.0.3.32.19971110115138.025c7c90@mail90.mitre.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

The recent traffic on RCGV3.4 SPICE brings back some great memories.

Ron M. Kielkowski of RCG Research conducts seminars on the basics and advanced use of SPICE. RCG SPICE was the software that he used for his demonstrations and provided to those who attended the seminar. (When I attended the seminar he indicated that we could distribute the software

freely as long as we didn't charge anyone - despite the copyright warning in the package)

It (RCG SPICE) is also provided in his book; Inside Spice : Overcoming the Obstacles of Circuit Simulation/Book and Disk. Ron also published another book; Spice : Practical Device Modeling/Book and Disk. I'd recommend both books, but beginners will probably get the most out of the Inside SPICE book. It covers basics of SPICE as well as nonconvergence issues with recommendations for work-arounds. If you haven't used SPICE or similar simulation programs, it is real easy to get yourself into a situation where the model doesn't converge. Ron provides a check-list set of suggestions based on the particular convergence error.

I'd highly recommend his two or three day seminars to anyone who wants to get quickly up to speed using SPICE. They're not cheap but reasonably priced compared to other seminars.

For other books on SPICE check out the amizon.com web site with a search for SPICE (Computer File).

The usual disclaimers apply. I have no financial interest in Ron, his books or his seminars. I'm just a very satisfied customer of his seminar and books.

Jim Johns KA0IQT
jrjohns@mitre.org

Date: Mon, 10 Nov 1997 11:55:24 -0600
From: Bob Reynolds <breynold@sigg.com>
To: qrp-l@Lehigh.EDU, kd1jv@moose.ncia.net
Subject: [30578] bugs, keys and paddles -Reply
Message-ID: <97Nov10.105107cst.19792@firewall.sigg.com>
Mime-Version: 1.0
Content-Type: text/plain
Content-Disposition: inline

  Steven Weber wrote:

>It's easy to tell if someone is using a bug, the dits are too short
>and
>fast, the dahs are too long and generaly there are no spaces
>between
>letters or words.

The real story is that the sender never learned to use a bug.
Spacing is a fault of the operator. I have used a bug for almost
40 years, with a lot of complements on easy readability.

>Paddles and keyers are a boom to mankind, provided one
>remebers to. put the
>spaces between letters and words.

Same problem - the operator.   Besides, the keyers can't send
the single character 0.   Most also say "TNX OM" insread of "TKS
OB" - but I'm showing my age with that.

>But what ever you use to make Morse, please don't run your
>characters
>together. It really helps if there are spaces between letters and
>words.

AMEN to that.   YES, I do use a straight key, a keyer, and 2
properly ajusted bugs.

73, Red K5VOL

breynols@sigg.com (near Chicago)

Date: Mon, 10 Nov 1997 11:57:00 -0500 (EST)
From: William McFadden <wmcfadde@oucsace.cs.ohiou.edu>
To: qrp-l@Lehigh.EDU (qrp-l)
Cc: ki6ds@telis.org, seorat@qsl.net (Southeast Ohio Radio Adventure Team)
Subject: [30578] QRPttF 98 Theme
Message-ID: <199711101657.LAA18929@oucsace.cs.ohiou.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Hello fellow QRPers.

I read with interest the announcement of the the QRP to the Field 1998
Theme, "Border Operations".

However, I have a question concerning how my colleagues and I can

participate from a border area.

First, I have to stipulate that I am working toward to 2x QRP WAS, and as such, I am most interested in operating from a location which allows me to count the QSOs for WAS. In practical terms, this means I have to stay within 50 miles of Athens OH, which makes the Ohio/West Virginia border the only one to consider.

As is evident from viewing a map of the area, the OH/WV border is the Ohio River.

Here's the question: For this event how can we locate the station to allow operations from both OH and WV?

I welcome any and all comments, particularly from the NorCal contest organizers.

tnx, es 72,

Eric

--

W. Eric McFadden WD8RIF   Athens OH
wd8rif@qsl.net
http://www.qsl.net/wd8rif

Date: Mon, 10 Nov 1997 12:05:21 -0500
From: Ed Tanton <n4xy@bellsouth.net>
To: kd1jv@moose.ncia.net
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [30579] Re: bugs, keys and paddles
Message-ID: <3.0.1.32.19971110120521.00b3e9c0@mail.atl.bellsouth.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

On the other hand, there is very little "fist" at all to a keyer. There is a certain amount of "swing" possible with a bug, and while irritating if taken to excess, a good fist is a most pleasant thing to hear.
72/73   ZUT!!!

Ed Tanton   N4XY   EMAIL: n4xy@bellsouth.net
189 Pioneer Trail
Marietta, GA 30068-3466   TEL: (770)579-3933 V/MBX/FAX

QRP-ARCI #7663 G-QRP #6779 OK-QRP #172 QRP-L #758
NCDXF SEDXC Life Member: ARRL AMSAT INDEXA QCWA
INTERESTS: QRP BoatAnchors Test Equipment Photography
CW: 99.9% 75W or less: 95-100% (Mood swings!)
~~~~~~
"Think you can, think you can't: either way you're right!" Henry Ford
~~~~~~

Date: Mon, 10 Nov 1997 09:09:14 -0800 (PST)
From: Monte Stark <ku7y@sage.dri.edu>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [30580] Re: bugs, keys and paddles
Message-ID: <Pine.SUN.3.90.971110084720.27212A-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 10 Nov 1997, Steven Weber wrote:

> With the risk of really starting some flames, I agree that bugs should be
> squashed, or at least left on the shelf to admire the fine craftmanship.

The beauty of a bug only comes to light with use!

> It's easy to tell if someone is using a bug, the dits are too short and
> fast, the dahs are too long and generaly there are no spaces between
> letters or words.

You left out one word....incorrectly! When a bug is used correctly,
the CW sounds just a good as it does when made with anything else.

To condem the tool because of so many people that are too lazy to
learn how to use them is not right.

> Paddles and keyers are a boom to mankind, provided one remebers to put the
> spaces between letters and words.

But why not condem paddles and keyers too? After all, there are those
who don't use them "right" too.

> Straight keys are great because the speed is infinatly adjustable and on
> the fly. Add to that thier inherent simplicity and no need for extra

> electronics to make them work.

Straight keys do not have infinatly adjustable speed. Very few people can get over 25 wpm with a hand pump.

And far more bad dits are sent with a hand key than with bugs! There isn't much that sounds worse than 20 wpm, finger shaking dits from a hand key when trying to send 12 wpm code! And you hear it all the time.

And their inherent simplicity means that they also take a lot of off air sending time to learn to send good code. Most people are no better with a hand key than they are with a bug.

But the code from a hand key is so much slower that it's easier for us to copy the bad code!!

> But what ever you use to make Morse, please don't run your characters
> together. It really helps if there are spaces between letters and words.

Amen. Learn to send code with the proper spacing. Not too much and not too little.

When sending to someone and you want to help them "get their speed up", it is sometimes good to send each letter at one speed and leave the spacing between the words at a slower speed.

But don't do this as a mater of habit!

Sorry for the response, but I just hate to see objects take the blame for what the operators are doing wrong!

If you want to use a bug, please keep it off the air until you can use it right! There is nothing magic about them. They just take a lot of work to get right. When you can use a bug right, people will accuse you of using a keyer!

And don't ever forget that one of the skills being lost in this day and age of computer generated code, is the ability to copy code. By that I mean that in the days before computers/electronic keyers, we all learned to copy what ever was sent. Some was a real challange, that's for sure. But we all did it.

Now, if the code isn't near perfect, we have a fit!! Don't forget that copying "bad" sending is nothing more than a skill. One that doesn't get much use any more!

Thanks for the B/W......I craw back into my hole now.... :-)

73, Ron,   SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Mon, 10 Nov 1997 9:06:00 -0600
From: Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>
To: mgipe@reliablemeters.com
Cc: qrp-l@Lehigh.EDU
Subject: [30580] Re: Good Ol' Fox
Message-ID: <M2223101.009.fxk2h.1.971110172154Z.CC-MAIL*/OU=LMPCC4/OU=ILBB/PRMD=MOT/ADMD=MOT/C=US/@MHS>

> Well, Kenny, let me tell you. It really is a dog's life. You think you're going out to hunt fox, and all your pet wants to do is listen to static pops, digibuzz and other weird stuff no self-respecting fox hound would waste time on. And the time they spend chasing down blind alleys, thinking there's a fox in there somewhere. Incidentally, stay away from the digibuzzes, you'll get get burrs in your ears that will take a week to go away.
>
> Sorry there wasn't time for more than a woof and a bark, but that's the way it is out here in the wonderful world of radio, ummm fox hunting, that is.
>
> Will keep an ear cocked up for you next time your pet takes you out for a spin. We'll certainly try to do better than a mere bark and a woof.
>
> 72, lil buddy,
> Ol' Kenwood

Date: Mon, 10 Nov 1997 10:29:53 -0700
From: gsurrency@juno.com (Gary L L Surrency)
To: w1aaz@juno.com
Cc: qrp-l@Lehigh.EDU
Subject: [30581] Re: 2222 Project Design Trade Offs
Message-ID: <19971110.102954.3446.1.gsurrency@juno.com>

You can achieve nearly the same results in driving a diode dbm with

sufficient LO (or premix, if you prefer that terminology) injection so that clipping is achieved. This is much simpler than using a digital chip to square up the sine wave. You just have to drive the dbm with sufficient level so that the clipping takes place. Use matched hot carrier diodes or match some 1N4148s if you can't get the hot carrier types, such as the 1N5711 or MBD101. Don't use too much LO injection, or you will cause additional problems.

The proper levels can be determined by looking at the waveform on an oscilloscope, or monitoring the mixer output for the point where signal levels no longer increase after the LO is increased past a threshold. Heath used to outline this type of adjustment in the alignment section of their manuals. Too much drive can cause exceesive LO content in the desired mixer (IF) output. This adjustment takes a little time to get right.

Although SBL-1 mixer modules aren't allowed in the 2222 design project, MCL recommends about a +7dBm LO injection for these devices. Note that this level is about 500mv or 4.0mW into a 50 ohm load. Not too far from the diode barrier voltage, whether schottky or silicon. Your home-made diode dbm made with discrete components should require about the same levels. Make sure your LO can provide this much RF drive. See the Handbook for more info.

Some folks who have low-powered LO's have been know to use closely matched germanium diodes like the 1N34A, 1N191, or 1N270 for the mixer. Their reduced barrier voltage makes this possible, but reverse leakage is higher and the strong-signal performance suffers somewhat. But weak signal detection may actually be better. Just watch out for those megawatt SW stations on 40m, and use a good input bandpass filter so the mixer isn't overwelmed.

The quality of the wideband RF transformers used in the dbm is a big factor in how well this works, since balance and IMD from the cores / windings is also important. Try to isolate the mixer from the rest of the receiver so that LO leakage isn't a problem into the rest of the circuitry. Shielding the mixer is a good idea, as evidenced by the SBL-1's metal package.

Then there is all the post-mixer options that some advocate. High bias amps, diplexers, and impedance pads are all used to properly terminate the undesired mixer products. What to use depends on the senstivity desired, and the type of IF filter used, etc. Choice of LO and IF frequencies make this an important decision. See Zack's thoughts on this in the ARRL's QRP Power and in other publications. Very interesting reading, and it helps clarify the design process.

72,

AB7MY
Gary Surrency
Chandler, AZ (Near Phoenix), QRP-L #571, AZ ScQRPions, ARRL VE

Date: Mon, 10 Nov 1997 11:30:32 +0000
From: "David Yanke" <n9ssg@pobox.com>
To: qrp-l@Lehigh.EDU
Subject: [30582] QRP-L in digest
Message-ID: <199711101731.LAA07520@mail.xnet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Is QRP-L available in digest form? How do I set it?

Watch out for gay limbo dancers.
  Dave Yanke - N9SSG
    mailto:n9ssg@pobox.com   http://www.pobox.com/~frrl
    PGP Public Key: http://www.xnet.com/~n9ssg/pkey.htm
PGP Fingerprint: 4A 4D 54 3C 2D 27 8D 19 69 42 2E D7 BF 80 10 40

Date: Mon, 10 Nov 1997 10:47:21 -0700
From: ji3m@maxwell.com (James R. Duffey)
To: Stan Wilson <microres@crl.com>
Cc: qrp-l@Lehigh.EDU
Subject: [30581] Local Oscillator Properties
Message-ID: <v0213050bb08cd28609ed@[192.31.66.158]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Stan - I have a few comments (as oppposed to real life, honest to goodness, definitive answers) on your questions about local oscillators to drive mixers;

"A review of the literature indicates we should use a local oscillator with an output of a square wave. What are the trade offs of using a sine wave generator for the local oscillator ?"

"Can we use a square wave to drive an active mixer ? Should we be using a

square as the LO for our mixers - either passive or active ?"

"Is a noisy oscillator problem only related to active mixers ? Or do we have the same problem from using them with a passive mixer ?"

The topic of square vs. sine wave local oscillators has been discussed here before. You may wish to search the archives. In short, the square wave oscillator is preferred because the diodes are driven into conduction for a larger portion of the cycle. This improves the mixing efficiency and I believe the strong signal handling capability as well. I believe that Zack Lau, W1VT, had what I would call a definitive post on the subject in which he reported some actual results of measurements he had made. It seems to me he comments briefly on this topic in the excellent QEX article he wrote on a superbly designed 7 MHz QRP rig which is reproduced in the ARRL QRP Power. I don't think that Zack used square wave drive in this rig so you can draw your own conclusions from that. I think that using a square wave instead of a sine wave is a "second order effect" and that the effort to improve the performance is better appplied other places before looking at the wave shape of the local oscillator.

I believe that square wave drive is also preferred for the active mixers although I am not sure exactly why this is. I know that there is an article in the early 70s in the "Proceedings of the IEE" (not IEEE) that shows better performance is achieved from bipolar mixers when they are overdriven by the local oscillator. Of course over driving results in a poor mans square wave, that is a sine wave with the top flattened.

The local oscillator should be as noise free as possible. This applies to both active and passive mixers. I think that this topic is addressed adequately in the Handbook. The K7??? design in "Solid State Design" is a good simple place to start. Much of the noise problem in oscillators in solved by making oscillators with high signal to noise ratios, which usually means oscillators with high outputs. This is fine, but high outputs require large power consumption so this is a limitation in low power consumption applications.

I hope that this helps. - Duffey KK6MC/5

James R Duffey KK6MC/5 DM65
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Mon, 10 Nov 1997 11:53:04 -0600
From: John Bohnert <johnb@elmhurst.edu>
To: qrp-l@Lehigh.EDU
Subject: [30582] DX QRP Style/15M
Message-ID: <34674A00.1580E44C@elmhurst.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Do you have your 15M antenna and rig ready? On November 9 between
approximately 2000-2200 UTC I worked D2, CO, LU, HK, FG, PY and TG5 with
one watt from my Sierra. Heard ZB2, ZS6(?), DJ and HB but could not
raise. D2BB was listening up 1-2 KHZ at approximately 21.008 MHZ. See
you in the Fox Hunt on Monday evening.

72   John   N9KW   QRP-L #1257

Date: Mon, 10 Nov 1997 13:12:50 EST
From: wd4nak@juno.com (CHARLES E HUX)
To: qrp-l@Lehigh.EDU
Subject: [30583] thank's
Message-ID: <19971110.131124.7903.2.wd4nak@juno.com>

to all that let me know a bout the CM6CX station thank you all . Now if
some one has a new call book and can send me the address and name I'll
have it all. This is my first DX on QRP .

     CHUCK WD4NAK

Date: Mon, 10 Nov 1997 18:30:21 GMT
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: ji3m@maxwell.com
Cc: qrp-l@Lehigh.EDU
Subject: [30583] Re: Local Oscillator Properties
Message-ID: <199711101830.SAA23292@chuck.dallas.sgi.com>

Jim et.al.,

1. K7HFD low-noise oscillator. Page 126, Chapter 6 of "Solid State Design...".

2. Saw brand new copy last night at Fry's Electronics, their new store in Dallas.

3. K7HFD, L. Gumm, original article was never referenced anywhere that I could
    find in the book. If anyone runs across the original, let us know or if I
    through oversite or poor eyes passed it up, let us know.

FYI
Chuck Adams K5FO CP-60 adams@sgi.com
http://reality.sgi.com/adams/index.html

Date: Mon, 10 Nov 1997 18:46:01 +0000
From: Gary M - W2UX <MAIL4GARY@worldnet.att.net>
To: qrp-l@Lehigh.EDU
Subject: [30583] Balun box kit arrives in SC
Message-ID: <19971110184600.AAA4122@GARY>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Got my balun box kit today as Scott said in his email. Looks nice and
should be handy.

73/72
Gary - W2UX
CW is the REAL THING!
Lexington, SC

Date: Mon, 10 Nov 1997 09:44:31 -0800 (PST)
From: Monte Stark <ku7y@sage.dri.edu>
To: ARDUJENSKI@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [30584] Re: N/T+ Foxhunt of 10 NOV 0200-0400 UTC
Message-ID: <Pine.SUN.3.90.971110094225.27329B-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Alan,

Good job. You just keep doing better and better!

Some of the exchanges being sent to you were up around 20 wpm and
I didn't hear you asking for a bunch of fills!!

I called you 3 times with no luck. Then I noticed that I had the
keying switch on the radio turned off!! Next time I got you. :-)

Keep up the good work,

73, Ron,   SOWP 5545M,

.........KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu...........Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Mon, 10 Nov 1997 10:11:00 -0600
From: Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>
To: jparker@fix.net
Cc: qrp-l@Lehigh.EDU
Subject: [30583] Pacificon Pix
Message-ID: <M2223344.007.g2g69.1.971110190728Z.CC-MAIL*/OU=LMPCC4/OU=ILBB/
PRMD=MOT/ADMD=MOT/C=US/@MHS>

     Jerry:
     Spent Sunday evening running through your picture set on the NorCal
     page. It was fun seeing friends over again, and some things I didn't
     see in person.
     Really nice job. Thanks for the extra effort.
     72, Bob N6WG

Date: Mon, 10 Nov 1997 10:52:00 -0600
From: Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>
To: qrp-l@Lehigh.EDU
Subject: [30584] Novice Foxes
Message-ID: <M2223347.010.g2g6c.1.971110190729Z.CC-MAIL*/OU=LMPCC4/OU=ILBB/
PRMD=MOT/ADMD=MOT/C=US/@MHS>

     Well, happy to report Ol' Kenwood was able to nose out and chomp down
     on two novice foxes -- John, W2MBY Friday evening and Alan, KB7MBI
     Sunday evening.

     Both were contending with weak signals, 229 both ways, plus the usual
     ration of QRM, QRN and QSB.

     Ladies and gentlemen, be warned. If these are novices, look out when

they upgrade!

Well done, fellows.

72, Bob N6WG and Ol' Kenwood

Date: Mon, 10 Nov 1997 12:55:01 -0600
From: Ed Manuel <n5em@flash.net>
To: "'qrp-l@lehigh.edu'" <qrp-l@Lehigh.EDU>
Subject: [30585] RE: bugs, keys and paddles
Message-ID: <01BCEDD7.F50DB8C0@hsh15-76.flash.NET>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

From: Steven Weber[SMTP:kd1jv@moose.ncia.net]
Sent: Monday, November 10, 1997 5:30 AM
To: Low Power Amateur Radio Discussion
Subject: bugs, keys and paddles

With the risk of really starting some flames, I agree that bugs should =
be
squashed, or at least left on the shelf to admire the fine craftmanship. =

A better counsel would be, "If you can't send good code with a bug, then =
use a paddle or a straight key." For those who can, by all means, keep =
the technology alive. People who know how to use a bug realize that for =
any setting of the counterweight, the bug can only send one speed. You =
cannot speed up and slow down by changing the dashes with your hand. If =
you want to go faster or slower, you stop and move the weight. And, for =
most of us (Chuck being an exception that comes to mind), the standard =
weight that comes on a bug is too light. Mine has two and it's just =
about right for my conversational CW speed.

CW is a craft kept alive by its devotees. There is no reason to =
advocate that bugs not be used, only use them properly. I would say =
that your fist is your signature but most people are proud of their =
illegible signatures so lets not use that analogy. Lets say that your =
fist should be a matter of personal pride.

Ed, N5EM
n5em@flash.net

CW: Digital before digital was cool.

Date: Mon, 10 Nov 1997 10:41:00 -0600
From: Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>
To: qrp-l@Lehigh.EDU
Subject: [30586] Re: Help for HW9 birdies?
Message-ID: <M2223345.008.g2g6a.1.971110190728Z.CC-MAIL*/OU=LMPCC4/OU=ILBB/PRMD=MOT/ADMD=MOT/C=US/@MHS>

Mike:
I don't have any fixes for you, but an observation. When WA6NAE built a HW-9, we tried to align it with a Motorola Service Monitor. Multi $K test gear for under $200 radio :-)

Anyway, we found it full of birdies and spurs. Never could clean it up. Since then have heard that others have put in extensive shielding using thin copper foil.

Heath is known for grounding boards through a star washer between board and chassis. Perhaps some more agressive gounding might help.

It may just have been that WA6NAE's unit was an early one. There are plenty of HW-9 out there playing just fine, so if there was a problem, it must have been fixed somewhere along the way.

Good luck and 72,
Bob N6WG

Date: Mon, 10 Nov 1997 13:17:22 -0600
From: "Jeff M. Gold" <jmg@tntech.edu>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [30587] magnets - Norcal batch II
Message-ID: <34675DC2.2251A0BE@tntech.edu>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

I had the same problem. Doug H. already answered my email. He suggested just putting one drop of crazy glue on it.

72
Jeff

==========
Hi Gangue,

I just did a trial assembly of my batch two paddle kit. Has anyone else noticed that the magnet and block have no interference? My magnet slips easily right through the hole and, if assembled, hangs on one or the other of the tension screws. If I'm the sole owner of a kit with this problem, I want to get whichever part is wrong sized. If we have a run of this I'd suggest we add a step to the kit instructions: try knurling the magnet. Possibly it could be done by rolling the magnet on a hardwood block under full body weight from the edge of a file. Don't know about the hardness of the alloy used in magnets and haven't yet tried this idea.

Suggestions/comments?

73,

Paul, Wv3j
--
Jeff M. Gold, Manager
Academic Computing Support
Tennessee Technological University
(615)372-3979

Date: Mon, 10 Nov 1997 11:32:41 -0800
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: qrp-l@Lehigh.EDU
Subject: [30584] Plastic Paddle Handles, The Fix
Message-ID: <3.0.1.32.19971110113241.006f495c@telis.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I got home late last night from a trip to Reno (payback to my wife for the Pacificon weekend), and immediately went down to school to check the email. I saw several postings about the "square paddle handles".

This is what happened. Doug Hauff met me on Wed. Oct. 29th at Kettleman City, which is halfway between San Luis Obispo and Dos Palos (about 100 miles for each of us, one way) to give me the machined parts for the paddles. He did not have time to finish cutting the plastic pieces, but

left them square in order to be able to bring me all of the parts. I then returned to Dos Palos and finished kitting the parts Wednesday and Thursday nights. Friday night I drove to San Luis Obispo and picked up the bases Saturday morning, and returned to Dos Palos and finished packing the bases into 300 kits late Saturday night. Sunday I delivered them to Jim. If Doug had not made the decision that he did and had not decided to give me all of the parts, there would have been no way that I would have been able to get the kits to Jim until this coming weekend!! I teach full time, and I do NorCal kits in my spare time, but I do have a family, job and other responsibilities. Doug Hauff made the right decision, and I concur with it 100%. That is the explanation. Now for the fix.

Guys, I went home, picked up a piece of the plastic, measured the midpoint on the side with the hole and marked it. Then I measured the midpoint of the side that I wanted to be diagonol and marked it. The next step was to draw a line connecting the two marks which gave me a diagonal line to guide the saw. Note that you do not want to take off the paper until you are finish with shaping the plastic pieces. Now, take out your saw of choice, I used a hack saw, and saw the corner off. If you use a hack saw, clamp the plastic piece to a board with a "C" clamp to make it easier to hold. It took me 5 minutes to cut both pieces of plastic.

Hint: If you want to make sure that both plastic pieces are exactly the same shape, clamp them together in a vise and file both of them to shape at the same time.

72, Doug, KI6DS/M0BIV

Date: Mon, 10 Nov 1997 13:57:52 -0500
From: "Buck, Preston D" <BuckPD@corning.com>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>
Subject: [30584] FOX: N0GLM fox update
Message-ID: <6B137F61081DD0118DF600805FEAC5C588BF88@SILVER.CORNING.COM>
Mime-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7BIT

Greetings All,

Well my foray into foxdom didn't work as well as I had hoped. If your hunt was fruitless and frustrating, I am sorry.

I was on the air at the appointed hour but nothing seemed to go right. I kept trying to find a clear portion of the band and finally settled on

the upper portion of the novice band around 7.140 Mhz. I called QRL? a couple of times only to have somebody start calling CQ right there! I shifted around a bit, listened and started my CQ string. There wasn't anything that I could make out. Several times, stations started calling CQ in the midst of me calling CQ. This has led me to believe that I wasn't getting out very well.

I have discovered that I have a periodic burst of static that wipes out any weak signals. They are two seconds apart and last for about a second. I did hear some very weak CW but the static bursts nuked any chance of me making them out. I haven't figured out where the bursts are coming from yet but I plan a location change to try to find out if it is environment or radio. It is on several bands.

For the first hour, the only signals that I could make out were the ones calling CQ on top of me, or people around 7.110 Mhz in a QSO (they were about 15wpm). Then at 2000 EST, all the signals stopped and the band totally died! When I touched the mode selector switch on my radio, the band came back to life. Push on the switch, the band is open; release the switch, the band dies. It is a PTL (push to listen) :) So a rapid disassembly of my radio to clean and tighten the switch followed.

So now I could listen AND the band is open because I copied somebody from MI, a W8 and K4 whose QTHs evaded me. They were coming 579, more than strong enough for me. The BC QRM settled down, so off went my CQ FOX. Still no response. The frustration meter is climbing higher. I continued calling trying until about 2230 before I gave up. Then I went QRO and called CQ still with no response. After that, I pulled the plug and went to bed. My homebrew vertical antenna didn't work very well. On the bright side, the remainder of the weekend was glorious!!

Next steps:

1. Antenna change. The G5RV is waiting in the wings but I can't get it very high. I will stop by Radio Shack on the way home for a big spool of grey magnet wire to string on the two big trees on the edge of the school yard. I will have to wait until after the moon sets to install the random wire to keep the neighbors neighborly but it should be subtle enough so nobody notices even during the day.
2. Location change. A friend said I could string up my G5RV and operate from their house on top of the (1800') hill, but they left for vacation Saturday and won't be back untill the 16th.
3. Put together my 40/40 and rainbow tuner so I can be portable and get some real elevation.

One of these is bound to work. The bands are getting to good for it not to. My next attempt is 12 Nov 0100-0300 UTC (11 Nov 2000-2200 Eastern). Look for me then in the upper portion of the novice band, less QRM

there.

72,
Preston, N0GLM

Disclaimer: These words and ideas are my own, not my company's.

Date: Mon, 10 Nov 1997 15:01:59 -0500
From: "david's" <elim@ime.net>
To: <kd1jv@moose.ncia.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [30584] Re: bugs, keys and paddles
Message-ID: <01bcee13$81097040$17c65ad1@default>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="us-ascii"
Content-Transfer-Encoding: 7bit

-----Original Message-----
From: Steven Weber <kd1jv@moose.ncia.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Monday, November 10, 1997 11:29 AM
Subject: bugs, keys and paddles

>With the risk of really starting some flames, I agree that bugs should be
>squashed, or at least left on the shelf to admire the fine craftmanship.
>
>It's easy to tell if someone is using a bug, the dits are too short and
>fast, the dahs are too long and generaly there are no spaces between
>letters or words.
>
>Paddles and keyers are a boom to mankind, provided one remebers to put the
>spaces between letters and words.
>
>Straight keys are great because the speed is infinatly adjustable and on
>the fly. Add to that thier inherent simplicity and no need for extra
>electronics to make them work.
>
>But what ever you use to make Morse, please don't run your characters
>together. It really helps if there are spaces between letters and words.
>
>BTW, last night, I hacked together a crude key with plexiglass and a
>magnetic spring. Works well enough to think of making a more practical

>version.
>
>72,
>Steve, KD1JV....In the White Mountains of New Hampshire
>
>"Melt Solder"
>
>
IT's only true that the dits are to short if the bug is not properly adjusted. I've worked some very fine operators over 30+years of hamming and as a military cw op who could make a bug sound great.
I use a bug here myself at times and have had many positive comments. Must we all conform to the same standards is there no room for the individual operating style and fists anylonger.. I realize the many of today's hams have been brought up on canned code.. but the real world brings differing styles of fists, different amounts of static,etc. and the good old Cw ops always copied it .. it was considered a skill..

Date: Mon, 10 Nov 1997 12:05:00 -0600
From: Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>
To: qrp-l@Lehigh.EDU
Subject: [30584] Circuit analysis programs
Message-ID: <M2223505.001.g5pq0.1.971110201749Z.CC-MAIL*/OU=LMPCC4/OU=ILBB/PRMD=MOT/ADMD=MOT/C=US/@MHS>

     Following Chuck Adams' post about PSPICE, I started trying to find it.
     He didn't give a clue to its location, so I began digging.

     Still haven't found SPICE2G.6, but I did find a site with a whole
     bunch of CAD demos from various vendors, including CirCad.

     The URL is http://www.industry.net/c/mn/_swcircuits.

     It might be worth your while to just rummage around here.

     72, Bob N6WG

Date: 10 Nov 1997 20:37:18 +0000
From: Dave.Ackrill@LotusXchgPG.powergen.co.uk
To: qrp-l@Lehigh.EDU

Subject: [30584] RE: LEDs and QRP Flashlights
Message-ID: <971110203718Z*/G=Dave/S=Ackrill/O=LotusXchgPG/PRMD=POWERGEN/ADMD=CWMAIL/C=GB/@MHS>

Don't ask how I got to subscribe, it's a long story, but there are many articles in the Cave Radio & Electronics Group Newsletter which detail various designs for underground lights using LEDs. From the last issue, 29 September 1997, comes an article about white light LEDs and the use of LEDs in providing illumination. Other issues have given designs for LED lamps.

For those with WWW access, try the following URL:-

http://www.sat.dundee.ac.uk/~arb/creg/

Cheers de Dave (G0DJA)

Date: Mon, 10 Nov 1997 15:43:49 -0500 (EST)
From: RobCap@aol.com
To: HEATH@listserv.tempe.gov, qrp-l@Lehigh.EDU
Subject: [30584] For Sale: Two Unbuilt Heathkits
Message-ID: <971110154348_-1207672032@mrin53.mail.aol.com>

Hi Folks-

I'm pruning some doubles from my collection of unbuilt Heathkits, so you can re-live the experience of building a Heathkit:

1) HX-1681 multi-band transmitter. This unbuilt kit is in an original Heath shipping box that is somewhat beaten up, and the top cover of the kit has several scratches on it. Because the shipping box is beaten up, I inventoried the kit, and determined that it is complete and excellent shape except for the scratches. The price is $350, including UPS ground shipping and insurance within continental U.S.

2) HK-232 packet controller. This unbuilt kit is very clean. The price is $125, including UPS ground shipping and insurance within continental U.S.

73,

Rob, W3DX

Date: Mon, 10 Nov 1997 16:51:09 -0500
From: cooper@gmpvt.com (Tom Cooper)
To: qrp-l@Lehigh.EDU
Subject: [30584] feedline story
Message-ID: <199711102151.QAA27908@web.gmpvt.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I have 4 dpdt relays that I use to switch 4 different 450 ohm window line fed antennas remotely, and have been taking the result into a 4:1 current balun and then into 50 ohm coax, which goes about 100' to my station. Since 10 M is beginning to show some life, I was listening on the different wires and noticed that NO antenna was a perfect 1:1 match and not a bad receiving antenna, and that adding an antenna made no difference in the background noise.....

Uh oh. These are early warning signs of db's lost forever, so I ran some 450 ohm line from the relay box to the station and put the balun at the window and things are much improved. I must have had a whopping loss on 10 and 15 M because those bands are much more active now. Too bad I didn't do this before the SS.

Like they used to say on "Dragnet", dumb da dumb dumb.

Tom W1EAT

ps - Did you ever wonder what they do with the rest of the mole when they make molasses cookies?

Date: Mon, 10 Nov 1997 16:48:49 -0500 (EST)
From: n4js@amsat.org
To: Monte Stark <ku7y@sage.dri.edu>
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [30584] Re: bugs, keys and paddles
Message-ID: <XFMail.971110164849.n4js@amsat.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 8bit
MIME-Version: 1.0

On 10-Nov-97 Monte Stark typed:

>On Mon, 10 Nov 1997, Steven Weber wrote:
>
>
>> With the risk of really starting some flames, I agree that bugs should be
>> squashed, or at least left on the shelf to admire the fine craftmanship.
>
>The beauty of a bug only comes to light with use!
>

Thank you, Monte! I was getting a little red in the face, and steaming about
the negative comments about bugs. I use both an Original and a Lightining bug.
I have them weighted and adjusted, and they sound as well (or as bad) as my
keyer CW!

Unfortunately, many disparage that which they have been unable to master.

               Sent at 16:48:49 on 10-Nov-97
    _ _ _ _   _ ___   John L. Sielke n4js@amsat.org n4js@pobox.com
   | \| || | | _ | |/ __| n4js@qsl.net   NJ Grid:FM29LN
   | .` ||_ _|| || |__ \   http://www.qsl.net/n4js NJ-QRP #57 QRP-L #884
   |_|_| |_| __/ |___/   QRP-ARCI CQC #443 CQrp #50 AKQrp ARQrp
   NE-QRP #507 G-QRP #9544 NorCal #1989 QCWA FISTS #2781 ARS #243

Date: Mon, 10 Nov 1997 12:36:10 -1000
From: Peter Demmer <ampruss@hits.net>
To: k3tks@u1.abs.net, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Cc: "Roberta J. Barmore" <rbarmore@indy.net>
Subject: [30585] Re: Multi-band Verticals
Message-ID: <34678C5A.60FB@hits.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

Peter Demmer wrote:
>
> Peter L. Demmer wrote:
> >
> > George and qrp-L;
> > I have put together a neat retro fit kit to vastly improve the contact
> > point on Vern's (Wright coil) design. Everything else really works
> > good   This offer is to over come the fragility, difficult to adjust
> > and hold in adjustment and the multi-turn shorting of the original
> > brass finger stock coil contact. Our design is precision die turned

> > and fabricated of #13 AWG beryllium bronze. The contact point is also
> > tinned. In Hawaii, this land of eternal summer comes with a price of
> > corrosive high humidity (salt air). I will be offering a of; send
> > me only your existing square brass shaft, contact ferrule and the two
> > brass mounting screws (Don't send the coil) and I will return a
> > re-machined and retro-fit-up of both pieces. Included in our
> > retrofit kit will be two 316 stainless steel flat head machine screws,
> > two TEFLON spacers and a real "brite-tinned" brass thumb locking
> > screw. The cost will be $18.00 US, return shipping included. Cash,
> > check or money order will get the job done. I will be cranking up
> > for business and limited volume production in late November 97
> Ok gang, Finally got my computer up and on line. The show and tell at
> PACIFICON went well. Im now tooled up so send me IAW the original post
> ONLY your 1/4"x1/4" contact slider shaft, the 1/2 IPS copper slider
> sleeve and the two brass screws. Suggest you use a $3.00 US postal
> priority mailer. I will return the retrofitted parts using the same
> mode. Thanks to all the great folks I met in Concord. The QRP gang from
> NORCAL, the speakers and builders were a fine bunch to hang out with.
> Pat and I send our sincerest Aloha nui-ka ko and have a safe, reflective
> and joyous Thanksgiving. CU all in 98., God willing and the roof don't
> leak. (old submarine saying) Peter
> Peter L. Demmer KH6CTQ
> dba AMPRUSS CO
> 98-1559 Akaaka St.
> Aiea, HI 96701-3051

Date: Mon, 10 Nov 1997 15:24:47 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: qrp-l@Lehigh.EDU
Subject: [30586] Moles, Voles and New QRPp
Message-ID: <199711102224.PAA02241@usr04.primenet.com>

Howdy Folks,

Tom (W1EAT) wrote:
>
> ps - Did you ever wonder what they do with the rest of the mole when they
> make molasses cookies?

Well the moleskin goes to Dr. Scholl's for backpackers
across the world, and I think the rest gets turned into
molex connectors.... :)

Just got back from the local post office and happily
discovered the latest QRPp - wahoo! Lots of great stuff
(as usual)! Just to whet your appetite, here's a quick
look at the contents (assuming that's OK...):

That's it! Enjoy! (And yes, yours is coming *really* soon... :-))

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"Moof!"

Date: Mon, 10 Nov 1997 17:27:46 -0600
From: Bob Reynolds <breynold@sigg.com>
To: n4js@amsat.org, qrp-l@Lehigh.EDU
Subject: [30587] Re: bugs, keys and paddles -Reply
Message-ID: <97Nov10.162348cst.19811@firewall.sigg.com>
Mime-Version: 1.0
Content-Type: text/plain
Content-Disposition: inline

ALL - thanks for the notes on my reply - and I AM GLAD THAT I
WAS NOT THE ONLY ONE USING A BUG !

Johnson SPEED-X and Vibroplex LIGHTNING bug

73, Red K5VOL

breynold@sigg.com (near Chicago)

Date: Mon, 10 Nov 1997 17:32:36 EST
From: kt3a@juno.com
To: wmcfadde@oucsace.cs.ohiou.edu
Cc: qrp-l@Lehigh.EDU
Subject: [30588] Re: QRPttF 98 Theme
Message-ID: <19971110.173141.5415.4.kt3a@juno.com>

Is there a bridge that spans the Ohio river?
Load it up and at least the antenna is on both states!
Seriously, I think that working on borders presents
various problems as most of the land is private that
covers both sides. Rest stops and picnic areas are
about the only choice. Now the guys at the 4 corners
have it made as there is a park there.

30 miles to my south is the Mason-Dixon Line.

Cameron C.R. Bailey <><
Amateur Radio, KT3A
kt3a@juno.com
Mount Wolf, Pennsylvania

Date: Mon, 10 Nov 97 23:47:58 UT
From: "chuck munce" <k0gjx@classic.msn.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [30588] RE: Thursday Fixes
Message-ID: <UPMAIL05.19971110224303079@classic.msn.com>

Bruce

When the curtain opens up you guys in canada are in charge of shutting it
!!!...chuck :-)

From: owner-qrp-l@Lehigh.EDU on behalf of Rattray, Bruce
Sent: Monday, November 10, 1997 07:57
To: Low Power Amateur Radio Discussion
Subject: Thursday Fixes

...all right, all right!
...all you hunters south of the Canadian/USA border line up against the cement wall.....now!
...shuffle shuffle shuffle...
...ok....now I'm gonna ask you this question just ONCE!...HEAR!?!
...once only...
...listen up!...
...who was the clown that ordered up that &$*(#^$& AURORA, Thursday night so that Earl (VE5WF) and myself couldn't even hear the pileup let alone the blankety-blank FOX!?!?!.....and just to give us a little extra dig you called the aurora off for about 60 seconds to we COULD hear the pileup and the Fox...eh? eh? EH??
...teeth grinding...
...we canucks have our "auroras" too ya know...heh,heh,heh....;-)

....what fun!...72 - Bruce (VE5RC) QRP-L#886
"QRP! How sweet it is!"

e-mail: rattray@siast.sk.ca

Date: Mon, 10 Nov 1997 22:47:44 GMT
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: qrp-l@Lehigh.EDU
Subject: [30589] PSPICE
Message-ID: <199711102247.WAA23999@chuck.dallas.sgi.com>

Try

http://www.mal.eecs.uic.edu/EECS342/download.htm

PSPICE V6.0

Haven't tried it. I'm downloading it as we speak
and will try it at the hacienda later tonight.

FYI
Chuck Adams K5FO CP-60 adams@sgi.com
http://reality.sgi.com/adams/index.html

Date: Mon, 10 Nov 1997 14:32:00 -0600
From: Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>
To: qrp-l@Lehigh.EDU
Subject: [30590] CAD Spice or whatever
Message-ID: <M2223867.002.gcqx3.1.971110224948Z.CC-MAIL*/OU=LMPCC4/OU=ILBB/
PRMD=MOT/ADMD=MOT/C=US/@MHS>

     Steve, Chuck, anyone else out there who knows about these things.

     There seem to be a bunch of Spice equivalent programs out there with
     demo versions available. Each seems to have a limited library of
     components, active devices, whatever.

     Since they all claim to be Spice programs, would it be possible to
     gather up library elements from several different programs and create
     your own larger library for use in whichever program you prefer?
     Would the various programs recognize the "foreign" library items?

     Trying to find a way to get the most use out of these limited demos.

     Any ideas?

     72, Bob N6WG

Date: Mon, 10 Nov 1997 17:49:14 +0000
From: "John E. Kemker, III" <kemkerj@xyzzy.net>
To: breynold@sigg.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [30588] Re: bugs, keys and paddles -Reply
Message-ID: <3467491A.E802CC88@xyzzy.net>
MIME-Version: 1.0
Content-Type: multipart/mixed; boundary="------------C7F3720AD43B444FD853D300"

This is a multi-part message in MIME format.

--------------C7F3720AD43B444FD853D300
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

As a relatively new ham (callsign just a year old) who just got his
Tech+ certification (one day less than a year after getting the Tech!),
let me put in my two cents worth:

I just bought my first paddle. While I didn't buy a bug, I didn't buy a
set of iambics, either. I bought a Vibrokeyer, the single-lever paddle
from Vibroplex. For some reason, it just attracted me more than a set
of iambic paddles. That Vibroplex yoke just looks more "Morse" than all
the fancy double-paddles I've seen. Maybe I'll pick up a set of iambics
some time later, but for now, I'm enjoying the heck out of my 'keyer!

73!

Bob Reynolds wrote:
>
> ALL - thanks for the notes on my reply - and I AM GLAD THAT I
> WAS NOT THE ONLY ONE USING A BUG !
>
> Johnson SPEED-X and Vibroplex LIGHTNING bug
>
> 73, Red K5VOL
>
> breynold@sigg.com (near Chicago)
>
--------------C7F3720AD43B444FD853D300
Content-Type: text/x-vcard; charset=us-ascii; name="vcard.vcf"
Content-Transfer-Encoding: 7bit
Content-Description: Card for John E. Kemker III
Content-Disposition: attachment; filename="vcard.vcf"

begin: vcard
fn: John E. Kemker III
n: Kemker III;John E.
org: Tripoli Atlanta Rocketry Association
email;internet: kemkerj@xyzzy.net
title: Prefect
note: TRA #2499, TARA #002, SMIRK #6185
x-mozilla-cpt: ;0
x-mozilla-html: FALSE
version: 2.1
end: vcard

--------------C7F3720AD43B444FD853D300--

Date: Mon, 10 Nov 1997 16:55:33 -0600
From: mlp <mlp@flash.net>
To: qrp-l@Lehigh.EDU
Subject: [30589] Norcal Paddle instructions
Message-ID: <346790E5.70B1@flash.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I just received my paddle kit last week, but there were no instructions
with it.... should there have been some? Or are they on the web
somewhere and I missed the pointer? Or is this some of the 'challenge'
of the kit?

If they were supposed to be in the kit and I just didn't get 'em, is
there anyone in Austin, TX I can meet with to get a photocopy?

Thanks,

Marty Porter
mlp@flash.net

Date: Mon, 10 Nov 1997 14:57:41 -0800
From: "Dasher, Mark" <DasherM@IRWIN.ARMY.MIL>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [30590] Aurora Question
Message-ID: <c=US%a=_%p=ARMY%l=IRWEXCH2-971110225741Z-9091@irwin-exch2.army.mil>

After hearing 40meters the other nights and reading the e-mail on aurora
prop, I looked at the too few books I have on the subject. All seemed to
imply that aurora prop is a VHF event, maybe 10 meters. What is a good
source for more info on this subject?

73
Mark KF6LUD

Mark Dasher, Chief TACS
(DSN 470) 760-380-6621   dasherm@irwin.army.mil

Date: Mon, 10 Nov 1997 23:07:52 +0000
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [30591] Re: bugs, keys and paddles -Reply
Message-ID: <346793C8.434@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bob Reynolds wrote:
>
> ALL - thanks for the notes on my reply - and I AM GLAD THAT I
> WAS NOT THE ONLY ONE USING A BUG !
>
> Johnson SPEED-X and Vibroplex LIGHTNING bug
>
> 73, Red K5VOL
>
> breynold@sigg.com (near Chicago)
>

Someone please convert me. Don't have much cash so maybe
someone has a usable bug I can borrow for 6 months or so?

Would love to become proficient with one.

Anyone wanna help a ham who's down on his luck?

Save the list. Private email ok and will acknowledge
publicly if appropriate.

Tks./ Ed Loranger, we6w
--
72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)
HW-8,OHR-100, Pixie2, Johnson Viking II, Drake TR-3
QRP-L#1068,ARCI#9397,Norcal#2227,ARS#275,AR#112 grid CM88ok
mailto:we6w@qsl.net http://www.qsl.net/we6w

Date: Mon, 10 Nov 1997 16:00:30 -0700
From: John Evans - N0HJ <jaevans@codenet.net>
To: qrp-l@Lehigh.EDU
Subject: [30588] Re: QRPttF 98 Theme

Message-ID: <3467920E.99BB6FE1@codenet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

kt3a@juno.com wrote:

>
> 30 miles to my south is the Mason-Dixon Line.

Cameron et al.,

  I think I'll set up at the local Taco Bell or maybe even the brand new book store that is opening up here soon !!!

72 - john - n0hj

John A. Evans Chief Systems Administrator
Office: (719) 528-1800 x164 Titan Software Systems
Fax: (719) 528-1888 1115 Elkton Drive, Suite 200
email: jaevans@cos.cst.titan.com Colorado Springs, CO 80907-3535

Norcal #262 QRP-L #219 QRP-ARCI #8303 NE-QRP #213 CQC #045
CQrp #15 NJ-QRP #50 AK-QRP #52 NW-QRP #454 FISTS #3184
Personal Web Page: http://www.geocities.com/capecanaveral/9773/

Date: Mon, 10 Nov 1997 18:11:53 EST
From: nq2rp@juno.com (B/BAMS Club Station)
To: qrp-l@Lehigh.EDU
Subject: [30588] Re: Bugs, Paddles,Straight Keys, and KEYBOARDS!
Message-ID: <19971110.181025.7343.2.nq2rp@juno.com>

This is old material, and was hashed over thoroughly earlier this year.

If you like to operate CW, operate it. Use whatever it takes to generate the characters and enjoy...

Which brings up one point... IF some character is sending Morse characters, is that an oxymoron?

72/73, Keith, WB2VUO at the keys at B/BAMS
NQ2RP - The Byron/Bergen Amateur Microwaves System Club Station
Listen for our 10 Mtr Milliwatting Beacon: 125 mW on 28.287 MHz

"My night light runs more power than my Rig!!!"

Date: Mon, 10 Nov 1997 18:19:25
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@Lehigh.EDU
Subject: [30589] RE; bugs, paddles and keys
Message-ID: <3.0.1.16.19971110181925.09072496@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hmm, Guess I'll just crawl back into my hole for a few days while this
blows over....sorry if I offended any *good* bug ops out there.

(But, hey, sure livened up an otherwise dull Monday :-)

72,

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Mon, 10 Nov 1997 16:22:10 -0700
From: Andy Fox <foxes@theriver.com>
To: qrp-l@Lehigh.EDU
Subject: [30590] Re: QRPttF 98 Theme
Message-ID: <34679722.41AD@theriver.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello,

I've just been thinking about the fact that my QTH is _really_ close to
the Arizona/Sonora border... Certainly within 50 miles...

I wonder what the rules are. Probably a lot of them. I'm not sure the
Border Patrol would approve.

Oh, well.
--

Andy Fox
foxes@theriver.com

End of QRP-L Digest 905
****
